APPROVED

By mford01 at 5:58 pm, Apr 29, 2015





Crawford's Tankerman Service

PO Box 1146 Collierville, TN 38027-1146 901-861-2900



Invoice

AMOUNT

406.00

183.75

175.00

25.00

DATE	INVOICE#
6/11/2008	8939

BILL TO CES Environmental 4904 Griggs Road Houston, TX 77021

TEF	RMS	P.O. NO.						
DATE	<u> </u>	DESCRIPTION	.l	STAF	T TIME	STOP TIME	QTY	RATE
5/27/2008	DIISCHARG	hemical Barge regular i		0800		1530	350 7	406.00 0.525 25.00

City Barge CCL 7 5/27

Tota	\$764.75
Payments/Cr	edits \$0.00
Balance Due	\$764.75
	

TERMS

Crawford's Tankerman Service PO Box 1146 Collierville, TN 38027-1146 901-861-2900

Invoice

DATE	INVOICE#
6/11/2008	8939

BILL TO	
CES Environmental 4904 Griggs Road Houston, TX 77021	

P.O. NO.

						`
DATE	DESCRIPTION	START TIME	STOP TIME	QTY	RATE	AMOUNT
DATE 5/27/2008	DESCRIPTION CCL-7 AT INTERNATIONAL PAPER PINE BLUFF DIISCHARGE CAUSTIC Hazardous Chemical Barge regular rate for 8 hours Mileage Travel Time	0800	STOP TIME	350 7	406.00 0.525	406.00 183.75

Total \$764.75

Payments/Credits \$0.00

Balance Due \$764.75

TO.....

CES ENVIRONMENTAL SERVICES INC

BARGE.... CCL 7
LOCATION.. PLAQUEMINE POINT SHIPYARD, SUNSHINE, LA

PRINT DATE: 9/27/08
JOB DATE: 9/27/2008

PLEASE NOTE: FOR ITEMS LEFT BLANK, NO DEFECT WAS FOUND

RADIATOR	FULL	DRIP PAN	LT 1/4
ENGINE WATER TEMP	0165	DRIP PAN VALVES PLUGGED	YES
ENGINE OIL LEVEL	LOW	DRIP PAN COVERS IN PLACE	YES
ENGINE OIL PSI	0050	SLOP TANK	
FUEL TANK LEVEL	FULL	ENG HYDRAULIC ACCUMULATOR.	2600 PSI
		l	

HDR BLT EVERY HOLE... YES PUMP PACKING CLEARANCE.... "

	DESCRIPTION	DEFECT
1	Documentation in Place	
2	Benzene sign displayed if required	
3	Warning Signs up and Legible	
4	Pipeline and Crossover test dates	
5	Liquid in voids	
6	Draft Marks	
7	Decks Clean and free of trash	
. 8	Scupper plugs in place	
9	Hull damage including walkways/stairs	
10	Gauge sticks inoperable or inaccurate	
11	Spill kit in place for oil barges	
12	Sight glasses (visibility, wiper cond)	
13	Stripping tubes capped	
14	Fuel/Slop tanks-safe level/dogged tight	
15	Flame Screens	
16	Oil Leaks	
17	ESD operable	
18	Pump Fluid level	
19	Mechanical seal condition	
20	Location of stiff/frozen valve(s)	
21	Other	



Inspection Report (LOADING)

Subject: CCL 7

Date:

7/2/2008

Our ref.: 104575

Product: SULFIDIC CAUSTIC Client ref.: TBN

Location: Lake Charles, La / Citgo

Client: CES ENVIRONMENTAL SERVICES

Summary of Figures	Bbls @ 60°F	Gailons @ 60°F	Long Tons	Metric Tonnes	Pounds
Shore Measurements					
Total Shore figures delivered GSV	7,997.55	335,897.10			
Average API Gravity @ 60°F					
Shoretanks no(s): TANK 182					
Vessel's Measurements					
Vessel's figures before loading (OBQ) Free Water	0.00				
Vessel's figures before loading (OBQ) Liquid	0.00				
Vessel's figures before loading (OBQ) Non Liquid	0.00				
Vessel's figures before loading (OBQ) Total	0.00	0.00			
Vessel's figures TCV on board after loading	8,135.33	341,683.86			
Vessel's figures TCV loaded	8,135.33	341,683.86			
Vessel's figures Free Water loaded	0.00	0.00			
Vessel's figures GSV loaded	8,135.33	341,683.86			

Cargo stowage Cargo tanks no(s):

CCL 7[1C, 2C, 3C]

Samples

SHORE TANK - 2X1 QUART RUNNING

BARGES - 2X1 QUART RUNNING PER CARGO TANK

Quality

N/A

Time Log

6/25/2008	0940	BARGE ARRIVED
	0955	BARGE DOCKED
	1655	INSPECTOR NOTIFIED
	1755	INSPECTOR ARRIVED
	1830	S/T 182 GAUGED OPEN AND SAMPLED
	2000	COMMENCED PRE-DECK INSPECTION
	2000	CARGO HOSE CONNECTED
	2010	COMPLETED PRE-DECK INSPECTION
	2030	COMMENCED LOADING
6/26/2008	0600	INSPECTOR NOTIFIED
	0700	INSPECTOR ARRIVED
	0730	S/T 182 GAUGED CLOSED

SGS North America Inc.

Oil, Gas & Chemicals Services 4701 E. NAPOLEON SULPHUR, LA 70663 t((337) 625-1455) f((337) 625-1721) www.sgs.com

Member of the SGS Group (Société Générale de Surveillance)



	1830	INSPECTOR NOTIFIED
	1930	INSPECTOR ARRIVED
	2100	S/T 182 GAUGED OPEN
6/27/2008	0445	INSPECTOR NOTIFIED
	0515	COMPLETED LOADING
	0545	INSPECTOR ARRIVED
	0600	S/T 182 GAUGED CLOSED
	0615	COMMENCED FINAL INSPECTION
	0615	CARGO HOSE DISCONNECTED
	0650	COMPLETED FINAL INSPECTION
7/1/2008	1555	INSPECTOR NOTIFIED
	1610	BARGE ARRIVED
	1620	BARGE DOCKED
	1645	CARGO HOSE CONNECTED
	1655	INSPECTOR ARRIVED
	1730	S/T 182 GAUGED OPEN AND SAMPLED
	1745	COMMENCED INSPECTION OBQ
	1815	COMPLETED INSPECTION OBQ
	1830	COMMENCED LOADING
	2300	COMPLETED LOADING
	2305	COMMENCED FINAL INSPECTION ROB
	2345	COMPLETED FINAL INSPECTION ROB
	2345	CARGO HOSE DISCONNECTED
7/2/2008	0030	S/T 182 GAUGED CLOSED

Brett Daigle for SGS Oil, Gas & Chemicals Services

7/2/2008

Shore volume calculated in accordance with:

ASTM D 1250-04
Vessel volume calculated in accordance with:

ASTM D 1250-04

Procedures as per applicable MPMS Chapter 3.1a, 7, 8.1 or 8.2, 12.1 or 12.2, 17.1, 17.2, 17.4.

isclaimer

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FIRCC REV. January 2007

Page	 73.5	2
1 11/25	1,7 -	2m 1

PORT / TERMINAL: Lake (/2008	OFFICE: LAKE CHARLES, LA	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455								
VESSEL: CCL 7	VOY #:	INSPECTOR(S): TM									
DATE: 6/27/2008		SGS FILE: 104575									
CARGO: SULFIDIC CAUS	STIC	CLIENT: CES Environmental	REF: TBN								

VOYAGE ANALYSIS REPORT

202			VOI AGE AIV	AL I OIO I ILI	Oil Gas	& Chemicals Se	rvices Division.
✓ LOADIN	ıg □ v-v	TRANSFER	DISCHARGE	,	Type of Voyag	e C/P DATE	
				SUMMARY		Simple	
Load Port/Termir	nal/Berth	ARRIVED	SAILED	Discharge Port	Terminal/Berth	ARRIVED	SAILED
LAKE CHARLES	S,LA. / CITGO	6/25/2008	6/27/2008				
VOLUME UNITS		SUPPLIER	RECEIVER	VCF SHORE LOAI	VCF SHORE DISCH	VCF VESSEL LOA	D VCF VESSEL DISC
🗸 BBLS 🗌 GAI	LS 🗌 M³ 🗌 L	CITGO	CES				
DESCRIPTION	API	TCV	FW	GSV	S&W	NSV	Reference
	OF SHORE QUA	ANTITIES IN CUS					
Bill of Lading 1.		7997.55	0.00	7998.97			(1)
Outturn 2.							(2)
Diff. 3.							(3)=(2) - (1)
Oiff. % 4.	siire sii vi						$(4) = (3) / (1) \times 100$
Recalc. B/L 5.	(a)		Recalculate if	B/L and O/T use	different tables.		(5) (a) Vol. Diff.
II. VESSEL/SHO	RE QUANTITIES		O PORT(S)				
/essel Sail	ling A		0.00	8135.33	LIQUID	NON-LIQUID	(A)
OB	Q (AII) B		0.00	0.00	0.00	0.00	(8)
Loa	ided C	8135.33	0.00	8135.33			(C)=(A) · (B)
Diff	erence D	. 137.78	0.00	137.78			(D)=(C)-[(1) or (5)]
Diff	erence % E	. 1.72%	141	1.72%			(E)=(D)/[(1)or(5)]x100
oad Vessel Ratio	F	1.0172			w.y.		(F)=(C)/{(1)or(5)]
oad VEF	G	. 0.00000					(G)
heoretical Shore	Н	0.00					(H)=(C) / (G)
heoretical Shore	Diff. I	7997.55					(l)=(H) - [(1) or (5)]
heoretical Shore	Diff. % J	100.00%					(J)=(I)/[(1) or (5)]x100
II. VESSEL/SHO	RE QUANTITIES	AT () DISC	HARGE PORT(S)				
/essel Arri	val K				LIQUID	NON-LIQUID	(K)
ROI	B (All) L	•					(L)
Disc	charged M						(M) = (K) - (L)
Diffe	erence N						(N) = (2) - (M)
Diffe	erence % O						(O) = (N) / (2) x 100
ischarge Vessel	Ratio P						(P) = (M) / (2)
ischarge VEF	Q						(Q)
heoretical Shore	R.						(R) = (M) / (Q)
heoretical Shore	Diff. S.						(S) = (2) - (R)
heoretical Shore	Diff. % T.						$(T) = (S) / (2) \times 100$
II. VESSEL/'S CO	OMPARISON OF	LOADING AND DE	SCHARGE PORT(S) VCFTABLE	AUST BE CONSIST	ENT	
	erence U.		1				(U) = (K) - (A)
Diffe	erence % V.	<u> </u>			LIQUID	NON-LIQUID	(V) = (U) / (A) x 100
BQ/ROB Diffe	erence W.						W) = (L) - (B)
		TCV Difference (3)	- OBQ (B) + ROB (L)		S&W(1)/GSV(1)]X100		<u> </u> S&W(2)/GSV(2)]X100
DJ TCV DIFF :	(Qua	ntity) / 0.00	JAG (B) F HOD (L)	S&W at Load Po	· · · · · · · · · · · · · · · · · · ·	S&W at Disch Po	
Comments :							
repared by: TIN	M MC DONALD	Title :	SGS	Company:	INSPECTOR	Date Completed :	
	O luna 1007 Paul	<u> </u>		О	£	ublished Constal To	

PORT / TERMINAL: Lake Charles, L	a / Citgo		OFFICE LA	AKE CHARLES, LA	TEL (337) 625-1455	
/ESSEL CCL 7	VOY#		INSPECTOR(S): TM		
DATE 6/27/2008			SGS FILE	104575		
CARGO SULFIDIC CAUSTIC	······································		CLIENT C	ES Environmental	REF TBN	
SGS		SHORE QUAN	NTITY SUM	IMARY Oil	Gas & Chemicals Services Di	
✓ ATLOADING ☐ ATTRANS	FER	AT DISCHARGE	✓ SHOR	E TANK (STATIC)	METER (DYNAI	
CUSTODY TRANSFER SAMPLE						
API @ 60°F:		R.D. 60°F/60°F		Dens	ity Lbs/Gal @	
8&W % VOL:						
OURCE OF ANALYTICAL DATA:						
	UNITS	TANK 182	TANK 182	TANK 182		
OTAL CALCULATED VOLUME	BBLS	4202.71	1711.53	2083.31		
REE WATER	BBLS	0.00	0.00	0.00		
ROSS STANDARD VOLUME	BBLS	4202.71	1711.53	2083.31		
& W VOLUME	BBLS		····			
NET) STANDARD VOLUME	BBLS					
VCF TABLE (I)						
ROSS STANDARD WEIGHT	LBS					
& W WEIGHT	LBS					
NET) STANDARD WEIGHT	LBS					
	LL.		······································		<u> </u>	
	UNITS			SHORELINE	TOTAL DELIVERE	
OTAL CALCULATED VOLUME	BBLS				7997.55	
REE WATER	BBLS			_	0.00	
ROSS STANDARD VOLUME	BBLS					
& W VOLUME	BBLS		**************************************	1		
NET) STANDARD VOLUME	BBLS			-		
				<u> </u>	GSV NSV SV @	
ROSS STANDARD WEIGHT	LB\$				A GOA WOA DA G	
& W WEIGHT	LBS			-		
NET) STANDARD WEIGHT	LBS			 		
TELY STANDARD WEIGHT	LUO					
TOWACE OF MEDOE	w					
TOWAGE O/B VESSEL:						
				B/L DATE:		

ALET OTAL	NADO METOLIT	 		ļ				
(NEI) STANL	ARD WEIGHT	LBS				1		
STOWAGE C	VB VESSEL:							
					B/L D	ATE:		
REMARKS	QUANTITY CONFIRM	IED	QUANTITY	CHANGES	YES	NO	IF YES STATE REASON	
with	of				·			
with	of					······································		
Date	Time							Section of the sectio
Copyright SGS-(G&C June 1997 - Rev Oct	2003		Ser	ices rende	red according to	o published General Terms and	l Conditions
								さる

VESSEL: CCL 7	! PRT / TERMINAL: Lake Charles	s, La / Citgo		OFFICE:	LAKE	CHARLES, LA	TEL: (337) 6	325-1455
CARGO: SULFIDIC CAUSTIC	······································			INSPECTO	OR(S):	TM		
AT LOADING	TE:6/27/2008					······································		
✓ AT LOADING AT TRANSFER AT DISCHARGE CRUDE OIL ✓ PR ☐ API © 60°F: ☐ R.D. 60°F/60°F ☐ Density Lbs′Gal © SAW % VOL: SOURCE OF ANALYTICAL DATA: VESSEL'S QUANTITIES V.E.F. CORRECTED: YES ✓ NO VEF: TOTAL CALCULATED VOL 8135.33 341683.86 FREE WATER 0.00 0.00 GROSS STANDARD VOLUME 8135.33 341683.86 FROB LIQUID MATERIAL 0.00 0.00 0.00 FROB LIQUID MATERIAL 0.00 0.00 0.00 FREE WATER 0.00 0.00 DISCHARGED QUANTITIES TOTAL CALCULATED VOL 8135.33 341683.86 DISCHARGED QUANTITIES TOTAL CALCULATED VOL 8135.33 341683.86 DISCHARGED QUANTITIES TOTAL CALCULATED VOL 8135.33 341683.86 CALCULATED VOL 8135.33 341683.86 SAW VOLUME				CLIENT:	CES E	nvironmental	REF: TBN	
API @ 60°F : R.D. 60°F/60°F	SGS	VI	ESSEL QUA	NTITY S	SUMI	MARY OILG	Gas & Chemicals Se	rvices Division.
VOLUME	AT LOADING AT TRA	NSFER AT	DISCHARGE	C CR	UDE O	L	✓ PROD	UCTS
VOLUME	API @ 60ºF:	n e	.D. 60°F/60°F			Densit	ty Lbs/Gal @	
VOLUME	W % VOL:							
BBLS U.S. GALS (**) POUNDS LONG TON VESSEL'S QUANTITIES V.E.F. CORRECTED: YES NO VEF: TOTAL CALCULATED VOL 8135.33 341683.86 SREE WATER 0.00 0.00 SROSS STANDARD VOLUME 8135.33 341683.86 SREE WATER 0.00 0.00 SROSS STANDARD VOLUME 0.00 SROSD STANDARD VOLUME 0.00 SROSD STANDARD VOLUME 0.00 SROSD STANDARD VOLUME 0.00 TOTAL 0.00 0.00 OTAL 0.00 0.00 TOTAL 0.00 0.00 TOTAL 0.00 0.00 SREE WATER 0.00 0.00 TOTAL 0.00 0.00 SREE WATER 0.00 0.00 SROSS STANDARD VOLUME 8135.33 341683.86 SREE WATER 0.00 0.00 SROSS STANDARD VOLUME 8135.33 341683.86	URCE OF ANALYTICAL DATA:							
BBLS U.S. GALS (t) POUNDS LONG TON VESSEL'S QUANTITIES V.E.F. CORRECTED: YES ✓ NO VEF: FOTAL CALCULATED VOL 8135.33 341683.86 GREE WATER 0.00 0.00 GROSS STANDARD VOLUME STANDARD VOLUME NET) STANDARD VOLUME FREE WATER 0.00 0.00 GROSS STANDARD VOLUME TOTAL 0.00 0.00 TOTAL 0.00 0.00		VO	LUME	1 14/	^E		WEIGHT	
TOTAL CALCULATED VOL 8135.33 341683.86 FREE WATER 0.00 0.00 GROSS STANDARD VOLUME 8135.33 341683.86 S & W VOLUME NET) STANDARD VOLUME LIQUID MATERIAL 0.00 0.00 NON-LIQUID MATERIAL 0.00 0.00 FREE WATER 0.00 0.00 FOTAL 0.00 0.00 TOTAL 0.00 0.00 FOTAL 0.00 0.00 STOTAL CALCULATED VOL 8135.33 341683.86 FREE WATER 0.00 0.00 SHOSS STANDARD VOLUME 8135.33 341683.86 FREE WATER 0.00 0.00 SHOSS STANDARD VOLUME 8135.33 341683.86	<u> </u> -	BBLS	U.S. GALS			POUNDS	LONG TONS	METRIC TONS
TOTAL CALCULATED VOL 8135.33 341683.86 FREE WATER 0.00 0.00 GROSS STANDARD VOLUME 8135.33 341683.86 S & W VOLUME NET) STANDARD VOLUME NON-LIQUID MATERIAL 0.00 0.00 FREE WATER 0.00 0.00 FREE WATER 0.00 0.00 TOTAL 0.00 0.00 TOTAL 0.00 0.00 TOTAL CALCULATED VOL 8135.33 341683.86 FREE WATER 0.00 0.00 SHOSS STANDARD VOLUME 8135.33 341683.86 FREE WATER 0.00 0.00 SHOSS STANDARD VOLUME 8135.33 341683.86	SSEL'S QUANTITIES	V.E.F. CO	RRECTED :	VES	~	NO.	VEF:	(AIR)
FREE WATER 0.00 0.00 GROSS STANDARD VOLUME 8135.33 341683.86 S & W VOLUME NET) STANDARD VOLUME 8135.33 341683.86 LIQUID MATERIAL 0.00 0.00 FREE WATER 0.00 0.00 FOTAL 0.00 0.00 TOTAL 0.00 0.00 TOTAL CALCULATED VOL 8135.33 341683.86 GREE WATER 0.00 0.00 GROSS STANDARD VOLUME 8135.33 341683.86 GREE WATER 0.00 0.00 GROSS STANDARD VOLUME 8135.33 341683.86								
GROSS STANDARD VOLUME S & W VOLUME	EE WATER							
NET) STANDARD VOLUME								<u> </u>
✓ OBQ ROB LIQUID MATERIAL 0.00 0.00 NON-LIQUID MATERIAL 0.00 0.00 FREE WATER 0.00 0.00 FOTAL 0.00 0.00 TOTAL 0.00 0.00 TOTAL CALCULATED VOL 8135.33 341683.86 FREE WATER 0.00 0.00 GROSS STANDARD VOLUME 8135.33 341683.86 GROSS STANDARD VOLUME 8135.33 341683.86								
✓ OBQ ROB LIQUID MATERIAL 0.00 0.00 NON-LIQUID MATERIAL 0.00 0.00 FREE WATER 0.00 0.00 FOTAL 0.00 0.00 TOTAL CALCULATED VOL 8135.33 341683.86 FREE WATER 0.00 0.00 GROSS STANDARD VOLUME 8135.33 341683.86 S & W VOLUME 8135.33 341683.86	T) STANDARD VOLUME	······································						
COTAL CALCULATED VOL 8135.33 341683.86 COTAL CALCULATED VOLUME 8135.33 COTAL CALCULATED VOLUME COTAL CALCULATED VOLUME 8135.33 COTAL CALCULATED VOLUME COTAL CALCULATED VOLUME								
NON-LIQUID MATERIAL 0.00 0.00 FREE WATER 0.00 0.00 FOTAL 0.00 0.00 DISCHARGED QUANTITIES FOTAL CALCULATED VOL 8135.33 341683.86 FREE WATER 0.00 0.00 GROSS STANDARD VOLUME 8135.33 341683.86	✓ OBQ			ЗОВ	***********			
FREE WATER 0.00 0.00 0.00 FOTAL 0.00 0.00 LOADED QUANTITIES TOTAL CALCULATED VOL 8135.33 341683.86 FREE WATER 0.00 0.00 BROSS STANDARD VOLUME 8135.33 341683.86 S & W VOLUME	UID MATERIAL	0.00	0.00					[
TOTAL CALCULATED VOL 8135.33 341683.86	N-LIQUID MATERIAL	0.00	0.00			·····		
LOADED QUANTITIES DISCHARGED QUANTITIES	EE WATER	0.00	0.00					
LOADED QUANTITIES DISCHARGED QUANTITIES TOTAL CALCULATED VOL 8135.33 341683.86 FREE WATER 0.00 0.00 GROSS STANDARD VOLUME 8135.33 341683.86 S & W VOLUME	FAL.							
TOTAL CALCULATED VOL 8135.33 341683.86 FREE WATER 0.00 0.00 GROSS STANDARD VOLUME 8135.33 341683.86 G & W VOLUME		0.00	L					
OTAL CALCULATED VOL 8135.33 341683.86 REE WATER 0.00 0.00 GROSS STANDARD VOLUME 8135.33 341683.86 G& W VOLUME								
REE WATER 0.00 0.00 GROSS STANDARD VOLUME 8135.33 341683.86 G & W VOLUME	LOADED QUANTITIE	:S		DISCHARGE	ED QUA	NTITIES		
REE WATER 0.00 0.00 GROSS STANDARD VOLUME 8135.33 341683.86 G & W VOLUME	FAL CALCULATED VOL	8135.33	341683.86					<u> </u>
ROSS STANDARD VOLUME 8135.33 341683.86 8 W VOLUME								
& W VOLUME								
DE OLOGO MOLUDED (N.O.) OLOGU ATOMO		U ATIONIO	L				0,000,000,000	
ARE SLOPS INCLUDED IN CALCULATIONS YES ✓ NO NO SLOPS ON BOA		JLATIONS	YES	Y: NC	} 	i: NO	SLOPS ON BOARD	
STOWAGE O/B VESSEL:)WAGE O/B VESSEL:							
REMARKS:	MARKS:				·····			
								- S

200	-

Page 1 of 2

PORT / TERMINAL: Lake (Charles, La / Citgo	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 7	VOY#:	INSPECTOR(S): TM
DATE: 6/27/2008		SGS FILE: 104575
CARGO: SULFIDIC CAUS	STIC	CLIENT: CES Environmental REF: TBN

SGS

TIME LOG

Oil Gas & Chemicals Services Division.

	AT LOAD	ING AT TRANSFER	AT DISCHARGE
·.			
Date	YE Hour	AR 2008 / MONTH JAN FEB MAR APR MAY JUN	JUL AUG SEP OCT NOV DEC
6/25	09:40	BARGE ARRIVED	
6/25	09:55	BARGE DOCKED	
6/25	16:55	INSPECTOR NOTIFIED	
6/25	17:55	INSPECTOR ARRIVED	
3/25	18:30	S/T 182 GAUGED OPEN AND SAMPLED	**************************************
3/25	20:00	COMMENCED PRE-DECK INSPECTION	
3/25	20:00	CARGO HOSE CONNECTED	
3/25	20:10	COMPLETED PRE-DECK INSPECTION	
3/25	20:30	COMMENCED LOADING	
3/26	06:00	INSPECTOR NOTIFIED	
6/26	07:00	INSPECTOR ARRIVED	
3/26	07:30	S/T 182 GAUGED CLOSED	
3/26	18:30	INSPECTOR NOTIFIED	
3/26	19:30	INSPECTOR ARRIVED	
3/26	21:00	S/T 182 GAUGED OPEN	
3/27	04:45	INSPECTOR NOTIFIED	
/27	05:15	COMPLETED LOADING	
/27	05:45	INSPECTOR ARRIVED	
/27	06:00	S/T 182 GAUGED CLOSED	
/27	06:15	COMMENCED FINAL INSPECTION	
/27	06:15	CARGO HOSE DISCONNECTED	
27	06:50	COMPLETED FINAL INSPECTION	
7/1	15:55	INSPECTOR NOTIFIED	
7/1	16:10	BARGE ARRIVED	
7/1	16:20	BARGE DOCKED	
7/1	16:45	CARGO HOSE CONNECTED	
7/1	16:55	INSPECTOR ARRIVED	
7/1	17:30	S/T 182 GAUGED OPEN AND SAMPLED	
7/1	17:45	COMMENCED INSPECTION OBQ	
7/1	18:15	COMPLETED INSPECTION OBQ	
7/1	18:30	COMMENCED LOADING	
7/1	23:00	COMPLETED LOADING	
7/1	23:05	COMMENCED FINAL INSPECTION ROB	
		TOPPAGES:	
	-ATO AND S	14.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
士			
	115855	E SUBMITTED TO US.	TIME LOG PAGE 1 OF

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PORT / TERMINAL: Lake Charles, La / Citgo	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 7 VOY #:	INSPECTOR(S): TM
DATE: 7/1/2008	SGS FILE: 104575
CARGO: SULFIDIC CAUSTIC	CLIENT: CES Environmental REF: TBN

SGS TIME LOG Oil Gas & Chemicals Services Division.

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PORT / TERMINAL: Lake Charles, La / Citgo	OFFICE: LAKE CHARLES, LA	TEL: (337) 625-1455
VESSEL: CCL 7 VOY #:	INSPECTOR(S): TM	SGS FILE: 104575
DATE: 7/1/2008 CARGO: SULFIDIC CAUSTIC	CLIENT: CES Environmental	REF: TBN

DATE:	7/1/2	008 <b>CARGO</b> :	SULFIDIC C	AUSTIC			CLIENT: CES	Environment	al	REF: TBN			
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	✓ AT LO	DADING	AT TRANS	HIPMENT	AT DISCHAR	3E		O TANKS	BALLA	ST TANKS	NOI	WOTHER CARGO	
UNITS:		FT-IN	□ FT		MM I	OTHER:		UNITS : 🗹	BBLS	U.S. GALS	W ₃	OTHER:	
TANK #	REFERENCE HEIGHT	OBSERVED REFERENCE HEIGHT	# INNAGE	WATER INN	TEMPERATURES °F § PROBE	AVG. TEMP	CORRECTED MEASURE	TOTAL OBSERVED VOLUME	FREE WATER	GROSS OBSERVED VOLUME	^ V.C.F.	GROSS STANDARD VOLUME	*
1C	15-7-0/0	15-8-1/4	10-10-3/4	NIL	88.8	88.8	10-10-3/4	2809.31	0.00	2809.31	1.00000	2809.31	
2C	15-7-0/0	15-8-1/4	10-6-1/2	NIL	88.8	88.8	10-6-1/2	2757.90	0.00	2757.90	1.00000	2757.90	
3C	15-7-0/0	15-8-1/4	9-9-3/4	NIL	88.8	88.8	9-9-3/4	2568.12	0.00	2568.12	1.00000	2568.12	
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************		OTHER	₹:				API @ 60F / DE	NSITY @ 15C		sou	JRCE :		
* GAU	SE POSITIO	N: C = Center	oftank F=Fo	orward of Ce	nter A = Aft of Cente	r	S&W-VOL9	<b>b</b> :		SOL	JRCE:		
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	VES	SEL'S STAFF		THE PIC DC	INSPECTOR		§TEMPERATURE			\/	API MPMS 17		
Copyrigh	8 + 1 Branche	001 - Rev April 2	005				1	***************************************	Services ren	dered according to		······································	lítions

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	^ VOLUME CALCULATED IN ACCORDANCE WITH	ASTM D 1250-04	TOTALS	0.	00			0	.00
	On behalf of our client(s) we would like to bring to your a	attention that in our opinion :	d = dip, u =	Ullage; c	orrected	measu	re,	w = W	edge
	Bbis of LIQUID MATER	IAL	GAUGE LOC	: NOITA	ST	ANDPIF	ЭE	S	/ G
	Bbls of NON-LIQUID M	ATERIAL			OTHER	;			***
	remains on board your vessel. To the extent we are awa	re of contractual	* GAUGE PO	SITION:	C = Cen	iter of to	ank F	= For	rward
and the state of t	relationships, this material belongs to our client(s) and s	should be pumped ashore.	OBQ SAM	PLED		YES	~	NO	IF NO
Land de la constant d	In case you are unable to do so please indicate your reas In any event, we have to advise our client(s) of the above								
П	compensation for the undelivered amount.	<del></del>	OBQ TES	ΓED	ĬĬ	YES	~	NO	IF NO
Ρ,	Statements with regards to flowability and similiar advis- opinions without responsibility for SGS.	ory services express personal			***************************************		***************************************	<del></del>	****
丘			ROB SAM	PLED		YES	✓	NO	IF NO
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F-16												Page	t of t
PORT/	TERMINAL: L.	ake Charles,	La		/ Citgo			OFFICE: LA	KE CHARLES, L	A	TEL: (33	7) 625-1455	
VESSE	L:CCL 7				VOY#:			INSPECTOR(S	s): TM		SGS FILE	: 104575	
DATE:	6/27/20	08 CARGO:	SUL	FIDIC CAUST	ric			CLIENT: CE	S Environmental		REF: TB	N	
S	3S					OBQ DO NOT USE V.			SUREMENT IS NOT TAKEN		Oil Gas &	Chemicals Servic	es Division.
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1C	15-7-0/0	15-8-1/4		0-0-0/0	NIL	NIL	60	0-0-0/0	0.00		0.00	0.00	0.00
2C	15-7-0/0	15-8-1/4		0-0-0/0	NIL	NIL	60	0-0-0/0	0.00		0.00	0.00	0.00
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		Bbls of L	IQL	JID MATERI	AL.			GAUGE LOC	CATION: 🗀 STA	ANDPIPE	<b>✓</b> G.H.	on Expansion tru	ink
		Bbls of N	ON	-LIQUID MA	TERIAL				OTHER:				
rem	ains on board ve			tent we are awar		ı		* GAUGE PO	OSITION: C = Cen	ter of tank	F = Forward of	Center A = Aft of	Center
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according to published General Terms and Conditions

LIST:

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F-7					OFFICE		E CHARL	COLA					
PORT / TERMI	NAL: Lake Charles	i, La / Citgo			10	2.74114		ES, LA	TEL:	(337)62	25-14	55	
VESSEL: CCL	7	VOY #:			INSPEC	TOR(S):	TM						
DATE: 6/27/20	08				SGS FII	LE: 104	4575	*****************************	pojennomini <del>nje provoje intern</del> ovina <b>p</b> oge in	-	***************************************	,	
CARGO: SULF	IDIC CAUSTIC	****			CLIENT	: CES	Environm	ental	REF:	TBN		<b></b>	
SGS		INFO	RMA	TION FO	R CLEA	NLINES	S INSPE		& Chem	icals Serv	vices	Divis	on.
AT LOADIN	G ATTR	ANSFER -	AT C	ISCHARGE			SHORI		V	VESSEL			
	THE INFORMATION ON	THIS LIRIS F-7 WILL E	BE USEC	TO COMPLET	E LIRIS F-9 W	VAS SUBMIT	TED TO US	BY THE PERS	ON(S) INDIC	ATED BELO	W		
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COATING NAM	1E	NONE				<del>                                     </del>							
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APPARENT CO COATING WAS F NOT CHECK SELECT: UR INSPECTION FO PREVIOUS CA TANK# 3C	CHECKED AGAIN ED, REASO e.g. % MISSING OR F-9 COVERS THE CL  RGOES:  CAUSTIC  S:  MATE	% DISCOLORE EANLINESS OF THE G  LAST  FRIAL	CAU	SECON USTIC	ACCEPTA JITABILITY IN ID LAST  ST USED F	BLE etc	CAUSTIC	PRE: YES YES YES YES	SSED WI NO NO NO	APPROXI	OMPA (ES	ATIBL	10 10 10 10 10 10
APPARENT CO COATING WAS F NOT CHECK SELECT: FUR INSPECTION FO TANK#  3C  LINES - PUMP: NAME	CHECKED AGAIN ED, REASO e.g. % MISSING OR F-9 COVERS THE CL  RGOES:  CAUSTIC  S:	% DISCOLORE EANLINESS OF THE G  LAST  FRIAL	CAU  CAU  UMPS AN	SECON USTIC  LAS	ACCEPTA  JITABILITY IN  ID LAST  ST USED F	BLE etc	CAUSTIC	PRE: YES YES YES AMINATION	SSED WINO NO NO TIS RECORD	APPROXI	OMPA (ES	'AIR	10 10 10 10 10 10
APPARENT CO COATING WAS IF NOT CHECK * SELECT: DURINSPECTION FO PREVIOUS CAI TANK# 3C  LINES - PUMP: NAME	CHECKED AGAIN ED, REASO e.g. % MISSING OR F-9 COVERS THE CL  RGOES:  CAUSTIC  S:  MATE	% DISCOLORE EANLINESS OF THE G  LAST  FRIAL	CAU  CAU  UMPS AN	SECON USTIC  LAS	ACCEPTA  JITABILITY IN  ID LAST  ST USED F	BLE etc	CAUSTIC	PRE: YES YES YES YES AMINATION INSFERT TO M	SSED WINONO NO	APPROXI	OMPA (ES	'AIR	10 10 10 10 10 10
APPARENT CO COATING WAS IF NOT CHECK  SELECT: DURINSPECTION FO  PREVIOUS CA TANK#  3C  LINES - PUMP: NAME  THE C "LINE" SA	CHECKED AGAIN ED, REASO e.g. % MISSING OR F-9 COVERS THE CL  RGOES:  CAUSTIC  S:  MATE	% DISCOLORE EANLINESS OF THE C  LAST  CRIAL  N OF THE CARGO PL MENCING THE TRANS	CAU  CAU  UMPS AN	SECON USTIC  LAS	ACCEPTA  JITABILITY IN  ID LAST  ST USED F	BLE etc	CAUSTIC	PRE: YES YES YES YES YES AMINATION. INSFER TO M	SSED WINO NO NO NO NO NO NIMIZE CA	APPROXI	OMPA (ES	ATIBLE OF THE PROPERTY OF THE	10 10 10 10 10 10

9		Page 1 of .
ORT / TERMINAL: Lake Charles, La / Citgo	OFFICE: LAKE CHARLES, LA	TEL: (337) 625-1455
YESSEL: CCL 7 VOY #:	INSPECTOR(S): TM	
PATE: 6/27/2008	SGS FILE: 104575	And her has a second of the se
ARGO: SULFIDIC CAUSTIC	CLIENT: CES Environmental	REF: TBN
SGS TANK CLEANL	INESS INSPECTION Oil Gas	& Chemicals Services Division.
✓ AT LOADING □ AT TRANSFER □ AT DISCHARGE	☐ AS INSPECTION ONLY  ✓ WITH CUSTO	AS PRE-INSPECTION ODY TRANSFER
USE A SEPARATE	FORM F-9 PER INSPECTION	
THIS IS THE FIRST SECOND	THIRD	TH INSPECTION
TANK(S): 1-3C		
BASED ON SUBMITTED INFORMATION (SEE LIRIS	F-7) AND :	
		•
VISUAL CHECK FOR RESIDUES FROM DE	ECKLEVEL (SEE LIRIS F-15 OR F-20)	
MEASURING OF RESIDUES FROM DECK I	LEVEL (SEE LIRIS F-16)	
PHYSICAL ENTRY (TANK SAFE ATMOSPH	HERE STATEMENT BELOW MUST BE C	OMPLETED PRIOR TO ENTRY)
7770		
AND 🗹 VISUAL INSPECTION		
AND WALLWASHING (ANALY		
AND WALLWASHING (ANALY		
AND WALLWASHING (ANALY	COILS	
AND WALLWASHING (ANALY AND TESTING OF HEATING C	COILS	
AND WALLWASHING (ANALY AND TESTING OF HEATING C	CARGO OF CAUSTIC	
AND WALLWASHING (ANALY AND TESTING OF HEATING C  WERE ACCEPTED FOR CLEANLINESS TO CARRY A C	CARGO OF CAUSTIC	
AND WALLWASHING (ANALY AND TESTING OF HEATING COME WERE ACCEPTED FOR CLEANLINESS TO CARRY A COME WERE REJECTED FOR CLEANLINESS TO CARRY A COME REASON:	CARGO OF CAUSTIC	
AND WALLWASHING (ANALY AND TESTING OF HEATING COME WERE ACCEPTED FOR CLEANLINESS TO CARRY A COME REASON:  SHIP'S STAFF AND/OR SGS SUPERVISOR AND/OR	CARGO OF CAUSTIC	ВУ
AND WALLWASHING (ANALY AND TESTING OF HEATING COMPLETED FOR CLEANLINESS TO CARRY A COMPLETED FOR CLEANLINESS TO CARRY A COMPLETED FOR CLEANLINESS TO CARRY A COMPLETED AT 20:10 HRS ON THE	COILS  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC	ВУ
AND WALLWASHING (ANALY AND TESTING OF HEATING COME WERE ACCEPTED FOR CLEANLINESS TO CARRY A COME REASON:  SHIP'S STAFF AND/OR SGS SUPERVISOR AND/OR	COILS  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC	ВУ
AND WALLWASHING (ANALY AND TESTING OF HEATING COMPLETED FOR CLEANLINESS TO CARRY A COMPLETED AT 20:10 HRS ON THE TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING BE	COILS  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC	
AND WALLWASHING (ANALY AND TESTING OF HEATING COMPLETED FOR CLEANLINESS TO CARRY A COMPLETED AT 20:10 HRS ON THE TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING BISIGNATURES:	CARGO OF CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC	TIM MC DONALD
AND WALLWASHING (ANALY AND TESTING OF HEATING COMPLETED FOR CLEANLINESS TO CARRY A COMPLETED AT 20:10 HRS ON THE TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING BUSINGNATURES:  FOR VESSEL	COILS CARGO OF CAUSTIC  CARGO OF  R CLIENT NOTIFIED ON E 6/25/2008 ERTH IN CASE OF PRE-INSPECTION  FOR TERMINAL	TIM MC DONALD INSPECTOR
AND WALLWASHING (ANALY AND TESTING OF HEATING COMPLETED FOR CLEANLINESS TO CARRY A COMPLETED FOR CLEANLINESS TO CARRY A COMPLETED AT 20:10 HRS ON THE TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING BUSINGS TO CARRY A COMPLETED AT 20:10 HRS ON THE TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING BUSINGS TO CARRY A COMPLETED AT 20:10 HRS ON THE TANK (S) SUBJECT TO A FINAL INSPECTION AT LOADING BUSINGS TO CARRY A COMPLETED AT 20:10 HRS ON THE COMPLETED AT 20:10 HRS ON THE COMPLETED AT 10:10 HRS ON THE COMPLETED A	COILS CARGO OF CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CAUSTI	TIM MC DONALD  INSPECTOR  YES NO
AND WALLWASHING (ANALY AND TESTING OF HEATING COMPLETED FOR CLEANLINESS TO CARRY A COMPLETED AT 20:10 HRS ON THE TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING BISIGNATURES:  FOR VESSEL  IS THIS TANK ACCEPTANCE BASED SOLELY ON SUBMITTED	COILS  CARGO OF CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC	TIM MC DONALD INSPECTOR
AND WALLWASHING (ANALY AND TESTING OF HEATING COMPLETED FOR CLEANLINESS TO CARRY A COMPLETED FOR CLEANLINESS TO CARRY A COMPLETED AT 20:10 HRS ON THE TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING BUSINGMATURES:  FOR VESSEL  IS THIS TANK ACCEPTANCE BASED SOLELY ON SUBMITTED FOR YES; ISSUE N.O.A.D. AND INFORM YOUR SGS SUPER	COILS CARGO OF CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CAUSTIC  CARGO OF  CAUSTIC  CA	TIM MC DONALD  INSPECTOR  YES NO
AND TESTING OF HEATING COMPLETED FOR CLEANLINESS TO CARRY A COMPLETED AT 20:10 HRS ON THE TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING BISSIGNATURES:  FOR VESSEL  TANK ACCEPTANCE BASED SOLELY ON SUBMITTED FYES; ISSUE N.O.A.D. AND INFORM YOUR  TANK SAFE AT	COILS CARGO OF CAUSTIC CARGO OF  CAUSTIC CARGO OF  CAUSTIC CARGO OF  CAUSTIC CARGO OF  CAUSTIC CARGO OF  CAUSTIC CARGO OF  CAUSTIC CAU	TIM MC DONALD  INSPECTOR  YES NO  MEDIATELY.
AND TESTING OF HEATING COMPLETED FOR CLEANLINESS TO CARRY A COMPLETED FOR CLEANLINESS TO CARRY A COMPLETED FOR CLEANLINESS TO CARRY A COMPLETED AT 20:10 HRS ON THE TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING BISSIGNATURES:  FOR VESSEL  IS THIS TANK ACCEPTANCE BASED SOLELY ON SUBMITTED FYES; ISSUE N.O.A.D. AND INFORM YOUR SGS SUPER SUPE	COILS  CARGO OF CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC	TIM MC DONALD INSPECTOR VES NO MEDIATELY.  d and gas freed as
AND TESTING OF HEATING COMPLETED FOR CLEANLINESS TO CARRY A COMPLETED FOR CLEANLINESS TO CARRY A COMPLETED AT 20:10 HRS ON THE TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING BUSINGSUMENTS.  FOR VESSEL  FOR VESSEL  TANK ACCEPTANCE BASED SOLELY ON SUBMITTED BY SUBJECT TO A FINAL INSPECTION AT LOADING BUSINGSUMENTS.  FOR VESSEL  TANK SAFE AT THE CONTROL OF THE CONT	CARGO OF CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC	TIM MC DONALD INSPECTOR VES NO MEDIATELY.  d and gas freed as
AND TESTING OF HEATING COMPLETED FOR CLEANLINESS TO CARRY A COMPLETED AT 20:10 HRS ON THE TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING BUSINESSEL  FOR VESSEL  FOR VESSEL  FYES; ISSUE N.O.A.D. AND INFORM YOUR SGS SUPER	CARGO OF CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC	TIM MC DONALD INSPECTOR VES NO MEDIATELY.  d and gas freed as
AND TESTING OF HEATING COMPLETED FOR CLEANLINESS TO CARRY A COMPLETED AT 20:10 HRS ON THE TANK (S) SUBJECT TO A FINAL INSPECTION AT LOADING BY TANK ACCEPTANCE BASED SOLELY ON SUBMITTED FYES; ISSUE N.O.A.D. AND INFORM YOUR SGS SUPER SU	CARGO OF CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC  CARGO OF  CAUSTIC	TIM MC DONALD INSPECTOR VES NO MEDIATELY.  d and gas freed as

FOR TERMINAL

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FOR VESSEL

NOTE: DO NOT ENTER THE TANK(S) if this TANK SAFE ATMOSPHERE STATEMENT is not signed and contact your supervisor for further instructions.

PRINT NAME (S):

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EPAHO081001475

ORT / TERMINAL: Lake Charles, La / Citgo ESSEL: CCL 7 VOY #: ATE: 6/27/2008 ARGO: SULFIDIC CAUSTIC  CARGO  AT LOADING AT TRANSFER AT DISCHARGE	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455  INSPECTOR(S): TM  SGS FILE: 104575  CLIENT: CES Environmental REF: TBN
ATE: 6/27/2008  ARGO: SULFIDIC CAUSTIC  CARGO  CARGO	SGS FILE: 104575  CLIENT: CES Environmental REF: TBN
SGS CARGO	CLIENT: CES Environmental REF: TBN
SGS CARGO	
<u>3u3</u>	
▼ AT LOADING □ AT TRANSFER □ AT DISCHARGE	Oil Gas & Chemicals Services Division.
	☐ RESIDUAL ✓ CLEAN PRODUCTS ☐ CHEMICALS/GASES
BOVE VESSEL WILL V LOAD DISCHARGE	✓ AT THIS TERMINAL AT (SPECIFY):
PER CHARTER PARTY AMENDED C/P 🗹 PF	RINCIPAL'S INSTRUCTIONS OTHER (SPECIFY)
DLLOWING QUANTITY(S) OF SULFIDIC CAUSTIC	
Secretaria de la companya de la comp	WIT POUNDS OTHER (SPECIFY)
OR: ( ) Ø BBLS A	M ³ OTHER AT STD. TEMP OBSERV. TEMP
IIS QUANTITY(S) IS SPECIFIED AS :  MINIMUM MAXIMUM MIN/MAX PLUS	OTHER (SPECIFY)
LUS OR MINUS %" IS THE OPTION OF	VESSEL TERMINAL CLIENT
PLUS OR MINUS %" IS OPTED FOR BY	VESSEL TERMINAL CLIENT
THE ABOVE QUANTITY(S): - WILL BE DETERMINE	ED BY SHIP'S STOP SHORE STOP
- WILL BE DELIVERED	/ DISCHARGED FROM TANK(S) S/T 182
- AND RECEIVED / LOA	ADED INTO TANK(S) 1C, 2C, 3C
SSEL'S CO-MINGLING ACCEPTABLE TO OUR PRINCIPA	AL YES NO
	SEPARATION VOLUMETRIC BLENDING
The second secon	70200ETTO DELIVING
GNATURES) VESSEL'S STAFF:	DATE: TIME:
TERMINAL REPRESENTATIVE :	DATE: TIME:
INSPECTOR: TM	DATE: 6/27/2008 TIME:
E STOP GAUGES: - TAKEN BY	INSPECTOR YES NO
	TERMINAL / VESSEL YES NO
	ED BY INSPECTOR YES NO
MARKS:	DBT INSPECTOR CONTROL INC.
**************************************	
	REMENTS WHEN REQUIRED BY OUR CLIENTS; HOWEVER, VESSEL AND BEERVATION OF STOP GAUGES, VALVE SETTING AND PUMPING INTO AND OUT
	ERATIONS. VOLUMETRIC OR WEIGHT COMPOSITES CAN BE PREPARED FROM EVER, DUE TO THE INHERENT DIFFICULTY IN ACHIEVING A HOMOGENEOUS CEPT ANY RESPONSIBILITY.  Services rendered according to published General Terms and Conditions
yright SGS-OG&C 1995 - Rev Oct 2003	Services rendered according to published General Terms and Conditions
anti ang pinangangan pagganan ang ang ang ang ang ang ang ang	



## Inspection Report (LOADING)

Subject: CCL 7

Date:

6/19/2008

Our ref.: 103605

Product: SULFIDIC CAUSTIC Client ref.: TBD

Location: Lake Charles, LA / Citgo Refinery Client: CES ENVIRONMENTAL SERVICES

Summary of Figure	s	Bbls @ 60°F	Gallons @ 60°F	Long Tons	Metric Tonnes	Pounds
Shore Measurements Total Shore figures delivered Average API Gravity @ 60°F	d GSV	8,002.51	336,105.42			
Shoretanks no(s):	TANK 182, TANK 182					
Vessel's Measurement	s					
Vessel's figures before loading	(OBQ) Free Water	0.00				
Vessel's figures before loading	(OBQ) Liquid	0.00				
Vessel's figures before loading	(OBQ) Non Liquid	0.00				
Vessel's figures before loading	(OBQ) Total	0.00	0.00			
Vessel's figures TCV on board	after loading	8,097.86	340,110.12			
Vessel's figures TCV loaded		8,097.86	340,110.12			
Vessel's figures Free Water lo	aded	0.00	0.00			
Vessel's figures GSV loaded		8,097.86	340,110.12			

Cargo stowage Cargo tanks no(s):

CCL 7[1C, 2C, 3C]

#### **Samples**

SHORE TANK - 2X1 QUART RUNNING BARGE - 2X1 QUART RUNNING PER CARGO TANK

#### Quality

NONE

#### **Time Log**

6/17/2008	0645	CCL 7 ARRIVED.
	0655	CCL 7 DOCKED.
	0710	INSPECTOR NOTIFIED.
	0810	INSPECTOR ARRIVED.
	0830	PRELOADING DECK INSPECTION COMMENCED.
	0840	PRELOADING DECK INSPECTION COMPLETE.
	0853	HOSE CONNECTED.
	0900	S/T 182 SAMPLED, TEMPED, AND GAUGHED OPEN.
	0920	LOADING COMMENCED.
	0950	INSPECTOR DEPARTED.
6/18/2008	0800	INSPECTOR NOPTIFIED.
	0900	INSPECTOR ARRIVED.
	0945	S/T 182 TEMPED AND GAUGHED CLOSED.

SGS North America Inc.

Oil, Gas & Chemicals Services

t(337-625-1455) www.sgs.com

Member of the SGS Group (Société Générale de Surveillance)



	1010	INSPECTOR DEPARTED.
	1800	INSPECTOR NOTIFIED.
	1900	INSPECTOR ARRIVED.
	2000	S/T 182 TEMPED AND GAUGHED OPEN.
6/19/2008	0200	INSPECTOR NOTIFIED.
	0210	LOADING COMPLETE.
	0230	INSPECTOR ARRIVED
	0240	POST LOADING DECK INSPECTION COMMENCED.
	0300	POST LOADING DECK INSPECTION COMPLETE.
	0300	HOSE DISCONNECTED.
	0310	S/T 182 TEMPED AND GUAGHED CLOSED.
	0320	CALCULATIONS COMMENCED.
	0340	CALCULATIONS COMPLETE.
	0345	CCL 7 RELEASED.

Brett Daigle for SGS Oil, Gas & Chemicals Services 6/20/2008

Shore volume calculated in accordance with: Vessel volume calculated in accordance with:

Procedures as per applicable MPMS Chapter 3.1a, 7, 8.1 or 8.2, 12.1 or 12.2, 17.1, 17.2, 17.4.

#### Disclaimer

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FIRCC REV. January 2007

F-3A			1 100/000 1 000 000
PORT / TERMINAL: Lake	Charles, LA / CITGO	OFFICE: Lake Charles, LA	TEL: 337-625-1455
VESSEL: CCL 7	VOY #:	INSPECTOR(S): JOHN HEBERT	
DATE: 6/17/2008		SGS FILE: 103605	
CARGO: CAUSTIC		CLIENT: CES Environmental	REF: TBN

✓ LOADIN	G □ V-V	TRANSFER	DISCHARGE	SUMMARY		Type of Voyage Simple	C/P DATE
Load Port/Termin	nal/Berth	ARRIVED	SAILED	Discharge Port/1	erminal/Berth	ARRIVED	SAILED
Lake Charles / C		6/17/2008	6/18/2008				
VOLUME UNITS		SUPPLIER	RECEIVER	VCF SHORE LOAD	VCF SHORE DISCH	VCF VESSEL LOAD	/CF VESSEL DISC
	.s□ M³ □ L	CIRGO	CES				
DESCRIPTION	API	TCV	FW	GSV	S&W	NSV	Reference
I. COMPARISON	OF SHORE QU	ANTITIES IN CUST	TODY TRANSFER				1
Bill of Lading 1.		8002.51	0.00	8002.51			(1)
Outturn 2.							(2)
Oiff. 3.							(3)=(2) - (1)
Diff. % 4.							(4) = (3) / (1) x 100
Recalc. B/L 5.	(a	)	Recalculate if	B/L and O/T use d	ifferent tables.		(5) (a) Vol. Diff,
II. VESSEL/SHO	RE QUANTITIES	AT( )LOAD	PORT(S)				-
essel Sail	ing A	L 8097.86	0.00	8097.86	LIQUID	NON-LIQUID	(A)
OBC	Q (Ali) E	0.00	0.00	0.00	0.00	0.00	(B)
Loa	ded C	8097.86	0.00	8097.86			(C)=(A) - (B)
Diff	erence D	95.35	0.00				(D)=(C)-{(1) ar (5)}
Diffe	erence % E	1.19%					(E)=(D)/[(1)or(5)]x100
oad Vessel Ratio	F	1.0119					(F)=(C)/[(1)or(5)]
oad VEF	G						(G)
heoretical Shore	Н						(H)=(C) / (G)
heoretical Shore	Diff.	8002.51					(i)=(H) - [(1) or (5)]
heoretical Shore	Diff. % J	-100.00%					(J)=(I)/[(1) or (5)]x100
I. VESSEL/SHO	RE QUANTITIES	AT ( ) DISCI	HARGE PORT(S)				
'essel Arri	val K				LIQUID	NON-LIQUID	(K)
ROE	3 (All) L						L)
Disc	harged M						(M) = (K) - (L)
Diffe	erence N						(N) = (2) - (M)
Diffe	erence % O						$(0) = (N) / (2) \times 100$
ischarge Vessel	Ratio P						(P) = (M) / (2)
ischarge VEF	Q						(Q)
heoretical Shore	R	•					$(\hat{H}) = \langle \hat{M} \rangle / \langle \hat{Q} \rangle$
heoretical Shore	Diff. S	•					(S) = (2) · (R)
heoretical Shore	Diff. % T						$(T) = (S) / (2) \times 100$
II. VESSEL/'S CO	MPARISON OF	LOADING AND DIS	SCHARGE PORT(S	) VCF TABLE M	UST BE CONSIST	ENT	
	erence U	· <del>/</del>					(U) = (K) - (A)
Diffe	erence % V.				LIQUID	NON-LIQUID	(V) = (U) / (A) x 100
BQ/ROB Diffe	erence W.						(W) = (L) - (B)
DJ TCV DIFF :	(Qua	TCV Difference (3) ntity) / 0.00	- OBQ (B) + ROB (L)	[S S&W at Load Port	&W(1)/GSV(1)]X100	[S S&W at Disch Por	&W(2)/GSV(2)]X100
omments :							
			<del></del>				
	······	Title:	**************************************	Company :	1	Date Completed :	
repared by:	Luna 1997 - Ray C	<u> </u>			dered according to n	······································	<u>II</u>

F-1						Paga	į ci
PORT / TERMINAL: Lake Charles, L	LA / CITO	GO .	OFFICE Lak	ce Charles, LA	TEL	337-625	-1455
VESSEL CCL 7	VOY#		INSPECTOR(S	): JOHN HEBER	<del>?</del> T	_,,_	
DATE 6/17/2008		·····	SGS FILE 1	03605			
CARGO CAUSTIC			CLIENT CE	S Environmental	REF	TBN	
SGS		SHORE QUA	NTITY SUMI	MARY Oil (	Gas & Chem	icals Serv	rices Division.
✓ ATLOADING ☐ ATTRANS	SFER [	AT DISCHARGE	<b>✓</b> SHORE	TANK (STATIC)		METER	(DYNAMIC)
CUSTODY TRANSFER SAMPLE							
☐ API @ 60°F:	Ĺ,	R.D. 60°F/60°F		Densi	ty Lbs/Gal	@	
S&W % VOL:							
SOURCE OF ANALYTICAL DATA:							
	UNITS	TANK 182	TANK 182				
TOTAL CALCULATED VOLUME	BBLS	5879.36	2123.15				
FREE WATER	BBLS	0.00	0.00				
GROSS STANDARD VOLUME	BBLS	5879.36	2123.15				
S & W VOLUME	BBLS						
(NET) STANDARD VOLUME	BBLS						
WCF TABLE (1 )							
GROSS STANDARD WEIGHT							
S & W WEIGHT			MANAGEMENT TO SEE THE SECOND S				
(NET) STANDARD WEIGHT							
	· · · · · · · · · · · · · · · · · · ·	**************************************	······································				
	UNITS			SHORELINE	TO	TAL DEL	IVERED
TOTAL CALCULATED VOLUME	BBLS	-				8002.	51
REE WATER	BBLS					0.00	)
GROSS STANDARD VOLUME	BBLS		······································			8002.	51
& W VOLUME	BBLS						
NET) STANDARD VOLUME	BBLS	·					
					<b>y</b> gsv □	NSV	SV @
GROSS STANDARD WEIGHT							
S & W WEIGHT							
NET) STANDARD WEIGHT							
STOWAGE O/B VESSEL:							
			1	B/L DATE:			
REMARKS QUANTITY CONFIRM	ED	QUANTITY C		YES NO	IF YES S	STATE RE	ASON
with of	nur für	Jonatii C		.25	,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		و د دو
73 141 2							<del>-                                    </del>

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F-2	**************************************		<del> </del>		200	<u> </u>
PORT / TERMINAL: Lake Charl	es, LA /		OFFICE: Lake	····	TEL: 337-62	25-1455
VESSEL: CCL 7	INSPECTOR(S): JOHN HEBERT					
DATE: 6/17/2008	SGS FILE: 103605  CLIENT: CES Environmental REF: TBN					
CARGO: CAUSTIC	······································				al REF: TBN	
SGS	VE	ESSEL QUA	NTITY SUMI	MARY o	il Gas & Chemicals Se	ervices Division.
✓ AT LOADING □ AT TE	RANSFER AT	DISCHARGE	CRUDE O	L	PROD	DUCTS
API @ 60ºF:	- C	.D. 60°F/60°F		Dei	nsity Lbs/Gal @	
S&W % VOL:		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
SOURCE OF ANALYTICAL DAT	A:					
	Vo	LUME	WCF		WEIGHT	
	BBLS	U.S. GALS	(t )	POUNDS	LONG TONS	METRIC TONS (AIR)
/ESSEL'S QUANTITIES	V.E.F. CO	RRECTED :	O YES O	NO	VEF:	······································
TOTAL CALCULATED VOL	8097.86	340110.12	2			
FREE WATER	0.00	0.00				
GROSS STANDARD VOLUME	8097.86	340110.12	2			
S & W VOLUME						
(NET) STANDARD VOLUME						
(VET) OTATIONIE VOLUME		<u> </u>				
<b>⊘</b> OBQ			ROB			
V OBQ	· · · · · · · · · · · · · · · · · · ·	<u> </u>	HOB			
COLUD BAATEDIAL	0.00	1 0.00	1			<u></u>
LIQUID MATERIAL	0.00	0.00				
NON-LIQUID MATERIAL	0.00	0.00				
FREE WATER	0.00	0.00				
TOTAL	0.00	0.00				
······································		.l				
LOADED QUANTIT	TIES	i and	DISCHARGED QUA	NTITIES		
					· . · ·	
TOTAL CALCULATED VOL	8097.86	340110.12				
REE WATER	0.00	0.00				
GROSS STANDARD VOLUME	8097.86	340110.12				
	00,1600	340110.12		· · · · · · · · · · · · · · · · · · ·		
& W VOLUME						
NET) STANDARD VOLUME						
ARE SLOPS INCLUDED IN CAL	CULATIONS	YES	NO	:	NO SLOPS ON BOARD	)
STOWAGE O/B VESSEL:			······································			
REMARKS:						
		·····			ording to published General	

Page 1 of 15

PORT / TERMINAL: Lake	Charles, LA /	OFFICE: Lake Charles, LA TEL: 337-625-1455
VESSEL: CCL 7	VOY#:	INSPECTOR(S): JOHN HEBERT
DATE: 6/17/2008		SGS FILE: 103605
CARGO: CAUSTIC		CLIENT: CES Environmental REF: TBD

SGS

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#### **TIME LOG**

Oil Gas & Chemicals Services Division.

	UO_		Uti	Gas & C	nemica	Is Servi	ces Divi	sion.
	✓ AT LOA	DING AT TRANSFER	AT DISCHARGE					
	Υ	EAR 2008 / MONTH JAN FEB MAR APR MAY JUN .	JUL	AUG	SEP	ост	NOV	DEC
Date	Hour				***			
6/17	06:45	CCL 7 ARRIVED.		****************				
6/17	06:55	CCL 7 DOCKED.						
6/17	07:10	INSPECTOR NOTIFIED.			*******************************			
6/17	08:10	INSPECTOR ARRIVED.			****			
6/17	08:30	PRELOADING DECK INSPECTION COMMENCED.		***************************************				
6/17	08:40	PRELOADING DECK INSPECTION COMPLETE.		····	·····			
6/17	08:53	HOSE CONNECTED.		***************************************				
6/17	09:00	S/T 182 SAMPLED, TEMPED, AND GAUGHED OPEN.		·····			******	
6/17	09:20	LOADING COMMENCED.	.,					
6/17	09:50	INSPECTOR DEPARTED.						
6/18	08:00	INSPECTOR NOPTIFIED.			·····			
6/18	09:00	INSPECTOR ARRIVED.			***************************************			
6/18	09:45	S/T 182 TEMPED AND GAUGHED CLOSED.						
6/18	10:10	INSPECTOR DEPARTED.						
6/18	18:00	INSPECTOR NOTIFIED.						
6/18	19:00	INSPECTOR ARRIVED.						
6/18	20:00	S/T 182 TEMPED AND GAUGHED OPEN.						
6/19	02:00	INSPECTOR NOTIFIED.						
6/19	02:10	LOADING COMPLETE.						
6/19	02:30	INSPECTOR ARRIVED						
6/19	02:40	POST LOADING DECK INSPECTION COMMENCED.						
5/19	03:00	POST LOADING DECK INSPECTION COMPLETE.						
5/19	03:00	HOSE DISCONNECTED.						
5/19	03:10	S/T 182 TEMPED AND GUAGHED CLOSED.						
3/19	03:20	CALCULATIONS COMMENCED.						
5/19	03:40	CALCULATIONS COMPLETE.						
5/19	03:45	CCL 7 RELEASED.						
				-				
							······································	
DE	LAYS AND	STOPPAGES:						
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VIES	JARKED * A	RE SUBMITTED TO US.	<del></del>		TIME	OG PAGI	E 1 C	F A

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F-10								fage 1 of 2.
PORT / TERMINAL	.: Lake Charles, L	.A	/ CITGO		OFFICE Lake	Charles, LA	TEL 337-625-1455	
VESSEL COL 7			VOY#		INSPECTOR(S):	JOHN HEBERT	SGS FILE 103605	
CARGO CAUSTI	C				CLIENT CES	Environmental	REF TBN	
CCC			SHOR	E TANK ME	ASUREMENT	S (STATIC)		
OUO		Y	AT LOADING	AT	TRANSFER	AT DISCHARGE	Oil Gas & Chemicals S	Services Division.
SHORETANK #	182	REF HEI	IGHT:	G	AUGE UNITS	FT-IN E FT	MM OTHER:	
	E:6/17/2008 <b>TI</b>			E: 6/18/2008 TI	ME: 9:45		OPEN	CLOSE
OBS. REF. HEIGHT	§ INNAGE	¤'ATER INN / ULL	OBS, REF, HEIGHT	§ INNAGE	# 'ATER INN / ULL	INSPECTOR:	JOHN HEBERT	JOHN HEBERT
	27-2 1/4	0-0		8-11 1/2	0-0	WITNESS:		
						API @ 60ºF		
CAUSTIC	25-3		CAUSTIC	7-0		SOURCE		
OIL	1-11 1/4		OIL	1-11 1/2		AMBIENT AIR TEMP		
	****					TEMP OF TANK SHELL	78	79
						AVG TEMP (0.59F)	89.5	90.0
§ MEASUREMENT	S TAKEN IN ACCO	ORDANCE WITH	;	INNAGE: API MPI	MS 3.1A.9.2	AVG INN / ULL	27-2 1/4	8-11 1/2
FREE WATER D	ETERMINED IN AC	CORDANCE WITH	:			AVG WATER INN / ULL	0-0	0-0
# TEMPERATURE	S TAKEN IN ACCO	RDANCE WITH	:	API MPMS 7.6.4		VOLUME UNITS BB	LS M3 OTHER	×
^ VOLUME CALCU	JLATED IN ACCOR	RDANCE WITH	;			TABLE VOLUME **	8726.09	2846.73
PROD TEMP	89.3 x 0.	<b>875</b> = 78.1375	PROD TEMP	89.8 x 0	<b>0.875</b> = 78.5750	FREE WATER	0.00	0.00
(+) AIR TEMP	x 0.	125 =	(+) AIR TEMP	x 0	).125 =	OBSERVED VOLUME	8726.09	2846.73
TANK SHELLTEME	PERATURE:	= 78	TANK SHELL TE	MPERATURE	= 79	TANK SHELL CORR.	1.00000	1.00000
ROOF CORRECTION	ON INFO - STANDA	ARD API:			······································	OBSERVED VOLUME	8726.09	2846.73
CRITICAL ZONE R	IANGE FROM	то	ROOF	LEG HIGH	LOW	ROOF CORRECTION	0.00	0.00
		OF	EN	CL	OSE	GROSS OBSERVED VOL.	8726.09	2846.73
AVG INN/ULL IN C	RITICAL ZONE	YES	✓ NO	YES	✓ NO	^VCF TABLE : (t )	1.00000	1.00000
SIDEGAUGE/ATG						GROSS STANDARD VOL.	8726.09	2846.73
TEMPERATURES	e <b>r</b>	# PROBE	MERCURY	# PROBE	MERCURY	DIFFERENCE	587	79.36
* ACTION TAKEN	• • • • • • • • • • • • • • • • • • •	✓ U 89.1 ✓ M	89.3 🗹 L 89.4	✓ U 89.8 ✓ N	1 89.7 <b>火</b> ∟ 89.8	CUSTODY TRANSFER SAN	PLE:	
***************************************		М		l n		API @ 60°F/ DE		-
**************************************	······································	OTHER*	· · · · · · · · · · · · · · · · · · ·	OTHER*		S & W % VOL.		
SIDETEMP/REMO	TE	27-2 3/4	27-2 3/4	8-11 15	5/16 9-0	S & W VOLUME		
PROBE WAS CHE	CKED PRIOR TO	USE YES	NO	NOT USED		NET STANDARD VOLUME		
SAMPLING		V U V N	A Y L	U I	v L	WCF TABLE : (t )		
* ACTION TAKEN	*	To reside		T Di		GROSS STANDARD WT.		
	· · · · · · · · · · · · · · · · · · ·	OTHER*		OTHER*		NET STANDARD WEIGHT		

OP TEMP:

CAL DATE:
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F-10								Page 2 of 2
PORT/TERMINA	L: Lake Charles, L	_A	/ CITGO		OFFICE Lake	Charles, LA	TEL 337-625-1455	
VESSEL CCL 7			VOY#		INSPECTOR(S):	JOHN HEBERT	SGS FILE 103605	
CARGO CAUST	IC				CLIENT CESE	Environmental	REF TBN	
CCC			SHOR	E TANK ME	ASUREMENT	S (STATIC)		
<b>505</b>		×	AT LOADING		TRANSFER	AT DISCHARGE	Oil Gas & Chemicals S	Services Division.
SHORETANK #	182	REF HE	GHT:	G	AUGE UNITS	Ø FT-IN □ FT □	MM OTHER:	***************************************
OPEN DAT	E: 6/18/2008 TI	ME: 20:00	CLOSE DAT	E: 6/19/2008 TI	ME: 3:10		OPEN	CLOSE
OBS. REF. HEIGHT	§ INNAGE	¤'ATER INN / ULL	OBS. REF. HEIGHT	§ INNAGE	* ATER INN / ULL	INSPECTOR:	JOHN HEBERT	JOHN HEBERT
	18-3 1/2			11-8 1/2		WITNESS:		***************************************
						API @ 60°F/ DENS. @ 15°		
CAUSTIC	16-4		CAUSTIC	9-9		SOURCE		
OIL	1-11 1/2		OIL	1-11 1/2		AMBIENT AIR TEMP		
						TEMP OF TANK SHELL	78	78
						AVG TEMP (0.5°F)	89.5	89.0
S MEASUREMEN	TS TAKEN IN ACC	ORDANCE WITH	;	INNAGE: API MPI	VIS 3.1A.9.2	AVG INNAGE	18-3 1/2	11-8 1/2
" FREE WATER D	ETERMINED IN AC	CORDANCE WITH	:			AVG WATER INN / ULL	0-0	0-0
# TEMPERATURE	S TAKEN IN ACCO	RDANCE WITH	:	API MPMS 7.6.4		VOLUME UNITS BB	LS M3 OTHER	*
^ VOLUME CALC	ULATED IN ACCOR	RDANCE WITH	:			TABLE VOLUME **	5856.73	3733.58
PROD TEMP	89.5 x 0.	<b>875</b> = 78.3125	PROD TEMP	89.1 x 0	<b>.875</b> = 77.9625	FREE WATER	0.00	0.00
(+) AIR TEMP	x 0.	125 =	(+) AIR TEMP	×Ω	).125 =	OBSERVED VOLUME	5856.73	3733.58
TANK SHELLTEM	PERATURE:	<b>≈</b> 78	TANK SHELL TE	MPERATURE	= 78	TANK SHELL CORR.	1.00000	1.00000
ROOF CORRECT	ION INFO - STANDA	ARD API:				OBSERVED VOLUME	5856.73	3733.58
CRITICAL ZONE	RANGE FROM	то	ROOF	EG 🗌 HIGH	H LOW	ROOF CORRECTION	0.00	0,00
		OF	EN	CL	OSE.	GROSS OBSERVED VOL.	5856.73	3733.58
AVG INN/ULL IN	CRITICAL ZONE	YES	☑ NO	YES	<b>∑</b> NO	^VCF TABLE : (t )	1.00000	1.00000
SIDEGAUGE/ATG						GROSS STANDARD VOL.	5856.73	3733.58
TEMPERATURES	S ºF	# PROBE	MERCURY	# PROBE	MERCURY	DIFFERENCE	212	3.15
* ACTION TAKE	٧:	✔ U 89.5 ✔ M	89.5 🗹 L 89.5	✓ U 89.1 🗸 N	1 89.1 🗹 L 89.1	CUSTODY TRANSFER SAN	IPLE:	
		M		ΩM		API @ 60°F/ DE		
		OTHER*		OTHER*		S & W % VOL.		
SIDETEMP/REMO	OTE	18-3 9/16	18-3 3/4	11-8 3/10	6 11-8 1/2	S & W VOLUME		
PROBE WAS CH	ECKED PRIOR TO I	USE 🗹 YES	D NO D	NOT USED		NET STANDARD VOLUME		
SAMPLING			1 DL		M DL	WCF TABLE : (t )		
* ACTION TAKE	N:	DT DE	□R	Ot Ot	3_ 🗓 R	GROSS STANDARD WT.		
		OTHER*		OTHER*		NET STANDARD WEIGHT		T

OP TEMP:

Ref TSh Temp: 60

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PORT/	TERMINAL	Lake Charles,	LA	1			OFFICE: Lake	Charles, LA		TEL: 337-	625-1455	NAME AND ADDRESS OF THE PARTY O	
VESSEL	-: CCL 7			VOY	#:		INSPECTOR(S): JOHN HEBERT SGS FILE: 103605						
DATE:	6/17/2	2008 CARGO:	CAUSTIC				CLIENT: CES	Environmenta	al	REF: TBN			
C	10	<del></del>		VES	SSEL MEASUR	REMENT	SYSTEM	OPEN	CLOSE / F	ESTRICTED			
26	CI CI				ARRIVAL	<b>Y</b> 0	EPARTURE			Oil Gas 8	Chemicals Se	rvices Division.	
	✓ AT L	OADING	AT TRANS	HIPMENT	AT DISCHAR	GE	✓ CARG	O TANKS	BALLA	ST TANKS	NO	N/OTHER CARG	0
UNITS :	Y	FT-IN	FT		MM III	OTHER:	Į t	INITS : 🗹	BBLS	U.S. GALS	M ³	OTHER:	
TANK #	REFERENCE HEIGHT	OBSERVED REFERENCE HEIGHT	¤ INNAGE	WATER INN	TEMPERATURES *F/*C \$ PROBE/MERCURY	AVG. TEMP	CORRECTED MEASURE	TOTAL OBSERVED VOLUME	FREE WATER	GROSS OBSERVED VOLUME	^ V.C.F.	GROSS STANDARD VOLUME	*
1C	15-7	15-7	9-11	0-0	89.1	89.1	9-11	2587.67	0.00	2587.67	1.00000	2587.67	
2C	15-7	15-7	10-0	0-0	88.9	88.9	10-0	2617.64	0.00	2617.64	1.00000	2617.64	
3C	15-7	15-7	11-1	0-0	89.3	89.3	11-1	2892.55	0.00	2892.55	1.00000	2892.55	1
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	<b></b>			<u> </u>				<u> </u>	<u> </u>	<u> </u>		<b>_</b>	+
PROBE	WAS CHECK	ED PRIOR TO USE	YE YE	s I	IO NOT USE	<u> </u>	TOTALS	8097.86	0.00	8097.86		8097.86	-
	·	: Y STAND	<del></del>	2001	Expansion Trunk		4			corrected, t = 1			J
GAGGE	LOCATION	OTHER		G.11, OII	CAPARSION TRUIK	· · · · · · · · · · · · · · · · · · ·	API @	·	. W - Wedge		OURCE :	**	
* GAU	GE POSITIO	N: C = Center	of tank F = Fo	rward of Ce	nter A = Aft of Cente	r	S & W - VOL %	· :			OURCE :		-
SAMPLES DRAWN: 2X1 QUART EACH TANK			S & W - VOL:			WCF TA	BLE : (t	)					
		· ·	***************************************	**************************************			NET STANDAR	D VOLUME					
BALLA	ST TANKS	PERMANENT	YES I	F NO	(SEE F-15 BALLAST	TANKS)	GROSS STANI	DARD WEIGHT	•				
	ICTION SEA						NET STANDAR						
DRAFT	: FWD	( <b>P</b> ) 9-6	AFT (P	9-6	LIST:	º (P) / (S	<u> </u>	VOL. DEPART	URE				
		(S) 9-6		9-6			REMARKS:	H ATED IN ACC	OBDANCE	1 1		**************************************	
SE	A CONDITIC	N: CALMIN P	PORT				^ VOLUME CALCI					**************************************	
j			l l	JOHN HEE	SERT		IN LIGOID LEVEL	SAUGES IN ACC	OHDANCE WIT	п			

INSPECTOR

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PORT / TERMINAL: Lake Charles, LA /	OFFICE: Lake Charles, LA	TEL: 337-625-1455
VESSEL: CCL 7 VOY #:	INSPECTOR(S): JOHN HEBERT	SGS FILE: 103605
DATE: 6/17/2008 CARGO: CAUSTIC	CLIENT: CES Environmental	REF: TBN

Page 1 of :

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3	J.C	<b>&gt;</b>	OBQ	ROB MEASUREMEN
-	_			

IT NOTE: DO NOT USE V.C.F. IF TEMPERATURE IS NOT TAKEN Oil Gas & Chemicals Services Division. JUJ MM UNITS: 🗹 BBLS U.S. GALS M³ OTHER: ✓ FT-IN FT OTHER: UNITS: LIQUID VOLUME FREE TANK # REFERENCE OBSERVED OBSERVED FREE **NON-LIQUID** AVG. CORRECTED TOTAL V.C.F. **NON-LIQUID** TEMP MEASURE **OBSERVED** WATER **VOLUME HEIGHT** REFERENC WATER INN/ULL INN / ULL E HEIGHT INN / ULL VOLUME VOLUME 10 15-7 0-0 0-0 0-0 0.00 1.00000 0.00 0.00 0.00 15-7 0-0 2C 15-7 15-7 0-0 0-0 0-0 0-0 0.00 1.00000 0.00 0.00 0.00 0-0 1.00000 0.00 3C 15-7 15-7 0-0 0-0 0-0 0.00 0.00 0.00 VOLUME CALCULATED IN ACCORDANCE WITH TOTALS 0.00 0.00 0.00 0.00 On behalf of our client(s) we would like to bring to your attention that in our opinion : d = dip, u = Ullage; corrected measure, w = Wedge corrected, t = Trim corrected GAUGE LOCATION : STANDPIPE G.H. on Expansion trunk **Bbls of LIQUID MATERIAL** OTHER: **Bbls of NON-LIQUID MATERIAL** * GAUGE POSITION: C = Center of tank F = Forward of Center A = Aft of Center remains on board your vessel. To the extent we are aware of contractual **OBQ SAMPLED** YES NO IF NO REASON relationships, this material belongs to our client(s) and should be pumped ashore. In case you are unable to do so please indicate your reasons below. in any event, we have to advise our client(s) of the above and reserve his right to seek compensation for the undelivered amount. **OBQ TESTED** YES NO IF NO REASON Statements with regards to flowability and similiar advisory services express personal opinions without responsibility for SGS. YES **ROB SAMPLED** NO IF NO REASON DRAFT: FWD (P) AFT (P) LIST: 9 (P) / (S) JOHN HEBERT (S) (S) VESSEL'S STAFF INSPECTOR SEA CONDITION: CALM IN PORT

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								Page	of
PORT / TERMINAL: L	ake Charles	s, LA /		OFFICE:	Lake Charles	s, LA	TEL:	337-625-145	5
VESSEL: CCL 7		VOY #:		INSPECTO	R(S): JOHN	I HEBERT			
DATE: 6/17/2008				SGS FILE:	103605				
CARGO: CAUSTIC				CLIENT:	CES Environ	mental	REF:	TBD	
SGS		INFOR	MATION FOF	CLEANL	NESS INSF		s & Chemic	cals Services	Division.
✓ AT LOADING	☐ AT TR	ANSFER	AT DISCHARGE		🗆 ѕно	RE	Ø	VESSEL	
······································	·	THIS LIRIS F-7 WILL BE					SON(S) INDICA	ATED BELOW	
WE CONSULTED FO	EL'S STAFF		E OPERATOR	8 (TIME)  TER	9:0 MINAL REPR	O WITH:	/E	CHARTER	ED
OTHER (SPECI		mad DANGI	CELATOR		(1413142AL 17LET 1	LOCITIATIO	terrent terrent	Q117G11 FG11	h-4 3
PLEASE PRINT NA								<del>,</del>	
	(-/	***************************************		······································					
TANK MATERIAL:									***************************************
TANK #:		1C-3C							
MATERIAL		STEEL				ĺ			
COATING NAME		N/A			<del></del>				
APPARENT CONDIT	ION *	ACCEPTABLE							
TANK #:									
MATERIAL									
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APPARENT CONDIT	ION *					l			
COATING WAS CHE								<u> </u>	
		IST MANUF	ACTURERS	OTHER (	SPECIFY)		CHE	CKLIST	
IF NOT CHECKED, F	REASO								
* SELECT: e.g.	REASO % MISSING	% DISCOLORED	) %PEELING A	CCEPTABLE	etc. (ALL F		GES ARE /		IONS)
* SELECT: e.g.	REASO % MISSING	% DISCOLORED	) %PEELING A	CCEPTABLE	etc. (ALL F		GES ARE /		IONS)
* SELECT: e.g. DUR INSPECTION FOR F-9	REASO % MISSING COVERS THE CL	% DISCOLORED	) %PEELING A	CCEPTABLE	etc. (ALL F		GES ARE /		IONS)
* SELECT: e.g. DUR INSPECTION FOR F-9	REASO % MISSING COVERS THE CL	% DISCOLORED	) %PEELING A	CCEPTABLE	etc. (ALL F		GES ARE /	APPROXIMAT	IONS)
* SELECT: e.g. DUR INSPECTION FOR F-9 PREVIOUS CARGOE TANK#	REASO % MISSING COVERS THE CL	% DISCOLORED	) %PEELING A	CCEPTABLE	etc. (ALL F	CONTAMINATI LAST	GES ARE /	APPROXIMAT COMP.	
* SELECT: e.g. DUR INSPECTION FOR F-9 PREVIOUS CARGOE TANK#	REASO % MISSING COVERS THE CL	% DISCOLORED	) %PEELING A	CCEPTABLE	E etc. (ALL F	CONTAMINATI LAST	GES ARE /	APPROXIMAT	ATIBLE
* SELECT: e.g. DUR INSPECTION FOR F-9 PREVIOUS CARGOE TANK#	REASO % MISSING COVERS THE CL	% DISCOLORED	) %PEELING A	CCEPTABLE	E etc. (ALL F	CONTAMINATI LAST	GES ARE /	COMP.	ATIBLE NO
* SELECT: e.g. DUR INSPECTION FOR F-9 PREVIOUS CARGOE TANK#	REASO % MISSING COVERS THE CL	% DISCOLORED	) %PEELING A	CCEPTABLE	E etc. (ALL F	CONTAMINATI LAST	GES ARE /	COMP.  YES  YES	ATIBLE NO NO
* SELECT: e.g. DUR INSPECTION FOR F-9 PREVIOUS CARGOE TANK#	REASO % MISSING COVERS THE CL	% DISCOLORED	) %PEELING A	CCEPTABLE	E etc. (ALL F	CONTAMINATI LAST	GES ARE /	COMP.  VES VES	ATIBLE NO NO NO
* SELECT: e.g. DUR INSPECTION FOR F-9 PREVIOUS CARGOE TANK#	REASO % MISSING COVERS THE CL	% DISCOLORED	) %PEELING A	CCEPTABLE	E etc. (ALL F	CONTAMINATI LAST	GES ARE /	COMP.  V YES  VES  VES  VES	ATIBLE NO NO NO NO
* SELECT: e.g. DUR INSPECTION FOR F-9 PREVIOUS CARGOE TANK#	REASO % MISSING COVERS THE CL	% DISCOLORED	) %PEELING A	CCEPTABLE	E etc. (ALL F	CONTAMINATI LAST	GES ARE /	COMP.  YES  YES  YES  YES  YES  YES	ATIBLE NO NO NO NO NO
* SELECT: e.g. DUR INSPECTION FOR F-9 PREVIOUS CARGOE TANK#	REASO % MISSING COVERS THE CL	% DISCOLORED	) %PEELING A	CCEPTABLE	E etc. (ALL F	CONTAMINATI LAST	GES ARE /	COMP.  VES VES VES VES VES VES VES VES	ATIBLE NO NO NO NO NO
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DT / TEDBISIAL ALOCA Charles LA I	OFFICE: Lake Charles, LA TEL: 337-625-1455
DRT / TERMINAL: Lake Charles, LA /	INSPECTOR(S): JOHN HEBERT
SSEL: CCL 7 VOY #:	SGS FILE: 103605
ATE: 6/17/2008	CLIENT: CES Environmental REF: TBD
ARGO: CAUSTIC	
SGS TANK CLEA	ANLINESS INSPECTION Oil Gas & Chemicals Services Divisi
✓ AT LOADING □ AT TRANSFER □ AT DISCHARGE	E AS INSPECTION ONLY AS PRE-INSPECT
USE A SEPAF	RATE FORM F-9 PER INSPECTION
THIS IS THE FIRST SECOND	THIRD TH INSPECTION
TANK(S): 1-3 CENTER	
BASED ON SUBMITTED INFORMATION (SEE L	LIRIS F-7) AND :
	M DECKLEVEL (SEE LIRIS F-15 OR F-20)
MEASURING OF RESIDUES FROM DE	·
PHYSICAL ENTRY (TANK SAFE ATM	OSPHERE STATEMENT BELOW MUST BE COMPLETED PRIOR TO ENTRY
AND VISUAL INSPECTIO	ON.
processing.	NALYTICAL REPORT ON FILE)
AND TESTING OF HEATH	·
✓ WERE ACCEPTED FOR CLEANLINESS TO CARRY	Y A CARGO OF CAUSTIC
₩ WERE ACCEPTED FOR CLEANLINESS TO CARRY	Y A CARGO OF CAUSTIC
✓ WERE ACCEPTED FOR CLEANLINESS TO CARRY ✓ WERE REJECTED FOR CLEANLINESS TO CARRY	
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F-14		Page 1 of f	T
PORT / TERMINAL: Lake (	Charles, LA /	OFFICE: Lake Charles, LA TEL: 337-625-1455	
VESSEL: CCL 7	VOY#:	INSPECTOR(S): JOHN HEBERT	]
DATE: 6/17/2008		SGS FILE: 103605	
CARGO: CAUSTIC		CLIENT: CES Environmental REF: TBD	
SGS	CARGO	O QUANTITY OPTION Oil Gas & Chemicals Services Division.	_
AT LOADING	T TRANSFER AT DISCHARGE	☐ RESIDUAL ☐ CLEAN PRODUCTS ✓ CHEMICALS/GASES	
ABOVE VESSEL WILL	✓ LOAD DISCHARGE	AT THIS TERMINAL AT (SPECIFY):	1
AS PER CHARTER	PARTY AMENDED C/P 🗹 PI	RINCIPAL'S INSTRUCTIONS OTHER (SPECIFY)	7 1
			] 1
FOLLOWING QUANTITY(S)	OF SULPHIDIC CAUSTIC		1
	) ( LT (	MT POUNDS ✓ OTHER (SPECIFY) 9'6" DRAFFT	7
OD. /	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	M³ OTHER AT STD. TEMP OBSERV. TEMP	- 1
OR: [(	/ i: 5505 i	THE CONTRACT OF COURT CAME	J 1
THIS QUANTITY(S) IS SPEC	g a manage g a particular g	S OR MINUS OTHER (SPECIFY)	1 1
*PLUS OR MINUS	%" IS THE OPTION OF	VESSEL TERMINAL CLIENT	┨ :
			┨ 1
*PLUS OR MINUS	%" IS OPTED FOR BY	VESSEL TERMINAL CLIENT	_] 2
THE ABOVE QUANTIT	Y(S): - WILL BE DETERMINI	ED BY SHIP'S STOP SHORE STOP	2
	- WILL BE DELIVERED	D / DISCHARGED FROM TANK(S) SHORE TANK 182	2
	- AND RECEIVED / LO	ADED INTO TANK(S) 1-3 CENTER VESSEL TANKS	- 2
FOOTI IO OO MINOLINO	ACCEPTABLE TO OUR REINCIR	AL YES NO	- 2
/ESSEL'S CO-MINGLING	ACCEPTABLE TO OUR PRINCIP	paragraphic design of the second seco	2 ד
CARGO REQUIRES	SEGREGATION	SEPARATION VOLUMETRIC BLENDING	2
SIGNATURES) VE	SSEL'S STAFF :	DATE: TIME:	2
	PRESENTATIVE :	DATE: TIME:	2
I CHIMIAME ITE	INSPECTOR: JOHN HEBERT	DATE: 6/17/2008 TIME: 8:40	2
	INSPECTOR: JOHN REBERT	DATE: 0/1//2008 TIME: 0.40	] 3 [,]
ARE STOP GAUGES :	- TAKEN BY	Y INSPECTOR YES NO	7 3
TIL STOP GAUGES.		TEDMINAL AVECCEL VEC NO	3:
		Comp.	3
70444747	- WITNESS	ED BY INSPECTOR YES NO	34
REMARKS:			35
			30
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			38
			39
***			40
			41
			42
			43
			44
NOTE: (1) WE CALCULA	TE AND CHECK ON STOP GALIGE MEASUR	REMENTS WHEN REQUIRED BY OUR CLIENTS: HOWEVER, VESSEL AND	45
	YEES ARE SOLELY RESPONSIBLE FOR O	BSERVATION OF STOP GAUGES, VALVE SETTING AND PUMPING INTO AND OUT	46
COMPONENTS AN		ERATIONS. VOLUMETRIC OR WEIGHT COMPOSITES CAN BE PREPARED FROM EVER, DUE TO THE INHERENT DIFFICULTY IN ACHIEVING A HOMOGENEOUS CEPT ANY RESPONSIBILITY.	47
onwright SGS-0G&C 1995 - Rev		Services rendered according to published General Terms and Conditions	] 39



To: Jenny Rust SGS REF NO: 105115

#### **CES ENVIRONMENTAL** TRIP#

#### **SUMMARY OF FINDINGS**

#### **OPERATION**

**DISCHARGE** FROM THE **CCL 7** TO SHORE TANK 607 AT KMTEX, PORT ARTHUR, TX ON **7/14/2008** OF A CARGO DESCRIBED AS **SULFIDIC CAUSTIC** 

#### **QUANTITY**

		DELIVERED (1)	RECEIVED (2)	DIFFERENCE	PERCENT
GSV	BARRELS U.S. GALLONS POUNDS LONG TONS	8,103.667 340,354.000	8,163.015 342,846.640	-59.349 -2,492.640	0.727 0.727 0.727
	METRIC TONS SHORT TONS				
	SHORTIONS				

- Delivered quantity based on barge figures
   Received quantity based on shore tank(s) 607
   Arrival: 8,103.67 GSV BBLS
- 4. ROB: 0.00 GSV BBLS

#### TIME LOG

TIME LOC	7	
7/13/2008		BARGE ARRIVED
	21:30	BARGE DOCKED
7/14/2008	06:00	INSPECTOR NOTIFIED
	06:20	THERMOPROBE/HERMETIC VERIFIED
	07:00	INSPECTOR ARRIVED
	07:15	INSPECTOR ON BOARD
	07:20	COMMENCE INSPECTION
	07:35	COMPLETE INSPECTION
	07:50	S/T 607 OPEN
	08:00	DELAY (BARGE MANIFOLD)
	09:00	HOSE ON
	10:30	COMMENCE DISCHARGE
	15:45	INSPECTOR NOTIFIED
	16:45	INSPECTOR ARRIVED
	16:50	INSPECTOR ON BOARD
	16:50	COMPLETE DISCHARGE
	17:00	COMPLETE INSPECTION
	17:15	HOSE OFF
	17:20	S/T 607 CLOSE
	17:35	BARGE RELEASED

Darren W. Le Blanc Date: 7/17/2008

SGS North America Inc.

Oil, Gas & Chemicals Services

t(409 727 1035) www.sgs.com

Member of the SGS Group (Société Générale de Surveillance)



Shore volume calculated in accordance with:

Vessel volume calculated in accordance with:

Definition of Terms as per MPMS Chapter 1.

Procedures as per applicable MPMS Chapter 3.1a, 7, 8.1 or 8.2, 12.1 or 12.2, 17.1, 17.2, 17.4.

DISCLAIMER

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## Inspection Report (LOADING)

Subject: CCL 7

Date:

8/20/2008

Our ref.: 111526

Product: SPENT CAUSTIC

Location: Lake Charles, La / Citgo

Client ref.: TBD

Client: CES ENVIRONMENTAL SERVICES

Summary of Figures	Bbls @ 60°F	Gallons @ 60°F	Long Tons	Metric Tonnes	Pounds	
Shore Measurements						
Total Shore figures delivered	l GSV	7,992.58	335,688.36			
Average API Gravity @ 60°F	NSV					
Shoretanks no(s):	TANK182, TANK182					
Vessel's Measurement	S					
Vessel's figures before loading	(OBQ) Free Water					
Vessel's figures before loading	(OBQ) Liquid	0.00				
Vessel's figures before loading	(OBQ) Non Liquid	0.00				
Vessel's figures before loading	(OBQ) Total	0.00	0.00			
Vessel's figures TCV on board	after loading	8,150.14	342,305.88			
Vessel's figures TCV loaded	•	8,150.14	342,305.88			
Vessel's figures Free Water loa	aded					
Vessel's figures GSV loaded						

Cargo stowage Cargo tanks no(s):

CCL 7[1C, 2C, 3C]

#### Samples

SHORE TANK - 2X1 QUART RUNNING

BARGE - 2X1 QUART RUNNING PER CARGO TANK

#### Time Log

	<b></b>	
8/18/2008	2300	INSPECTOR NOTIFIED
	2335	VESSEL ARRIVED
8/19/2008	0015	VESSEL DOCKED
	0045	SHORE TANK 182 GAUGED, TEMPERATURED and SAMPLED OPEN
	0100	COMMENCED PRE LOAD DECK INSPECTION
	0105	COMPLETED PRE LOAD DECK INSPECTION
	0145	1X6 CARGO CHICKSAN CONNECTED
	0320	COMMENCED LOADING
	0330	INSPECTOR DEPARTED
	1900	INSPECTOR NOTIFIED
	2000	INSPECTOR ARRIVED
	2010	LOADING SUSPENDED
	2100	SHORE TANKS GAUGED and TEMPERATURED CLOSED
8/20/2008	0700	INSPECTOR NOTIFIED
	0750	INSPECTOR ARRIVED
	0810	SHORE TANK 182 GAUGED, TEMPERATURED and SAMPLED OPEN
	1210	RESUMED LOADING

SGS North America Inc.

Oil, Gas & Chemicals Services

4701 E. NAPOLEON SULPHUR, LA 70663 t((337) 625-1456) f((337) 625-1721) www.sgs.com

Member of the SGS Group (Société Générale de Surveillance)



1600	INSPECTOR NOTIFIED
1630	INSPECTOR ARRIVED
1640	COMMENCED POSTLOAD DECK INSPECTION
1705	FINISHED LOADING
1710	COMPLETED POSTLOAD DECK INSPECTION
1710	COMMENCED FINAL CALCULATIONS
1825	6" HOSE OFF
1940	COMPLETED FINAL CALCULATIONS
2035	INSPECTOR DEPARTED

Brett Daigle for SGS Oil, Gas & Chemicals Services 8/21/2008

Shore volume calculated in accordance with: Vessel volume calculated in accordance with: ASTM D 1250-04 ASTM D 1250-04

Procedures as per applicable MPMS Chapter 3.1a, 7, 8.1 or 8.2, 12.1 or 12.2, 17.1, 17.2, 17.4.

Disclaimer

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FIRCC REV. January 2007

F-3A		Page 100 10
PORT / TERMINAL: Lake C	harles, La / Citgo	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 7	VOY#:	INSPECTOR(S): JOE BUSBY
DATE: 8/18/2008		SGS FILE: 111526
CARGO: Spent Caustic		CLIENT: CES ENVIROMENTAL REF: TBD

GCG

#### **VOYAGE ANALYSIS REPORT**

Load Port/Terminal/I		TRANSFER	DISCHARGE	SUMMARY	***************************************	Type of Voyage Simple	C/P DATE
		ARRIVED	SAILED	Discharge Port/T	erminal/Berth	ARRIVED	SAILED
LAKE CHARLES / (	CITGO	8/18/2008	8/20/2008				
VOLUME UNITS	(p)	SUPPLIER	RECEIVER	VCF SHORE LOAD	VCF SHORE DISCH	VCF VESSEL LOAI	CF VESSEL DISC
BBLS GALS	□ M³ □ L	CITGO	CES				
DESCRIPTION A	PI/DENSITY	TCV	FW	GSV	S&W	NSV	Reference
I. COMPARISON OF	SHORE QUA		<del>~</del>	7000 50	A A A		160
Sill of Lading 1.		7992.58	0.00	7992.58	0.00		(1)
Outturn 2. Diff. 3.	na na 12 na mga ngangan na taga		<u> </u>				(3)=(2) - (1)
98048		<u> </u>					$(3)=(2)^{-1}(1)$ $(4)=(3)/(1)\times 100$
Oiff. % 4.				B/L and O/T use d	:#		(5) (a) Vol. Diff.
	(a)		<u> </u>	B/L and O/T use d	interent tables.		(a) voi. Diri.
I. VESSEL/SHORE essel Sailing	····	·	PORT(S) 0.00	8150.14	LIQUID	NON-LIQUID	[A)
OBQ (			0.00	0.00	0.00	0,00	(8)
Loadeo		1	0.00	8150.14			(C)=(A) - (B)
Differe			0.00	157.56			(D)=(C)-[(1) or (5)]
Differer				1.97%			(E)=(D)/[(1)or(5)]x100
oad Vessel Ratio	F.						(F)=(C)/[(1)or(5)]
oad VEF	G.						(G)
heoretical Shore	Н.	8150.14					(H)=(C) / (G)
heoretical Shore Dif	f. 1.	. 157.56					(I)=(H) - [(1) or (5)]
heoretical Shore Dif	f. % J.	. 1.97%					(J)=(I)/[(1) or (5)]x100
I. VESSEL/SHORE	QUANTITIES	AT ( ) DISCH	IARGE PORT(S)				1
essel Arrival	K.	<del></del>			LIQUID	NON-LIQUID	к)
ROB (A	Ali) L.					·····	L)
Discha	ged M.						(M) = (K) - (L)
Differer	ice N.						(N) = (2) - (M)
Differer	nce % O.						(O) = (N) / (2) x 100
ischarge Vessel Rat	io P.						(P) = (M) / (2)
ischarge VEF	Q.						(Q)
heoretical Shore	R.						(R) = (M) / (Q)
heoretical Shore Dif	. S.						(S) = (2) - (R)
heoretical Shore Diff	. % T.						(T) = (S) / (2) x 100
II. VESSEL/'S COMF	ARISON OF I	OADING AND DIS	CHARGE PORT(S	) VCF TABLE M	UST BE CONSIST	ENT	
ransit Differer							(U) = (K) - (A)
Differen					LIQUID	NON-LIQUID	V) = (U) / (A) x 100
BQ/ROB Differen	ce W.						(W) = (L) - (B)
DJ TCV DIFF :	(Qua	TCV Difference (3) - ntity) / 0.00	OBQ (B) + ROB (L)	[Si S&W at Load Port	&W(1)/GSV(1)]X100 :: 0.0000	?] S&W at Disch Po	5&W(2)/GSV(2)]X100 rt:
omments :						····	
	ELLIOTT	Title: IMS	SPECTOR	Company :	SGS I	Date Completed :	
repared by: MIKE	ne 1997 - Rev O	<u> </u>			dered according to p		

PORT / TERMINAL: Lake Charl	es, La / Citgo	OFFICE LAKE CHARLES, LA TEL (337) 625-1455
VESSEL CCL 7	VOY#	INSPECTOR(S): JOE BUSBY
DATE 8/18/2008		SGS FILE 111526
CARGO Spent Caustic		CLIENT CES ENVIROMENTAL REF TBD

CCC	CUA	DE OLIANITITY CUMMADY
CARGO Spent Caustic		CLIENT CES ENVIROMENTAL REF TBD
DATE 8/18/2008		SGS FILE 111526
VESSEL CCL 7	VOY#	INSPECTOR(S): JOE BUSBY

SGS  AT LOADING AT TRANS  CUSTODY TRANSFER SAMPLE  API @ 60°F:	FER [	AT DISCHARGE	SHORE	E TANK (STATIC)		
					L. WEIE	R (DYNAMIC)
API @ 60°F:						to
		R.D. 60°F/60°F		Densi	ty Lbs/Gal @	***************************************
S&W % VOL:						
SOURCE OF ANALYTICAL DATA:				MANUAL PROPERTY		
						·
	UNITS	TANK182	TANK182			
TOTAL CALCULATED VOLUME	BBLS	5596.38	2396.20			
FREE WATER	BBLS	0.00	0.00			
GROSS STANDARD VOLUME	BBLS	5596.38	2396.20			
S & W VOLUME	BBLS					
(NET) STANDARD VOLUME	BBLS					
WCF TABLE (1 )			***************************************			
GROSS STANDARD WEIGHT						
S & W WEIGHT						
(NET) STANDARD WEIGHT						
					.1	
	UNITS		· · · · · · · · · · · · · · · · · · ·	SHORELINE	TOTAL DE	LIVERED
TOTAL CALCULATED VOLUME	BBLS				7992	2.58
FREE WATER	BBLS		***********************************		0.0	00
GROSS STANDARD VOLUME	BBLS				7992	2.58
S & W VOLUME	BBLS					
(NET) STANDARD VOLUME	BBLS					
					GSV NSV	SV @
GROSS STANDARD WEIGHT						According
S & W WEIGHT						
(NET) STANDARD WEIGHT			······			***************************************
					<u> </u>	
STOWAGE O/B VESSEL:						·
		***************************************		B/L DATE:		****

		B/L DATE:		
REMARKS	QUANTITY CONFIRMED	QUANTITY CHANGES YES NO IF YES STATE REASON		
with	of			
with	of			
Date	Time	1 - L - L - L - L - L - L - L - L - L -		
opyright SGS-(	OG&C June 1997 - Rev Oct 2003	Services rendered according to published General Terms and Conditions		

F-2			<del></del>			විශදු:		
PORT / TERMINAL: Lake Charl					CHARLES, LA	<b>TEL</b> : (337) 6	25-1455	
VESSEL: CCL 7	VOY#:		INSPECTOR(S): JOE BUSBY					
DATE: 8/18/2008	· · · · · · · · · · · · · · · · · · ·		<del> </del>	E: 111				
CARGO: Spent Caustic	······································		CLIENT	: CESt	Environmental	REF: TBD		
SGS	V	ESSEL QUA	NTITY	SUMI	MARY OIL GE	ıs & Chemicals Se	rvices Division.	
AT LOADING AT TE	RANSFER	T DISCHARGE		CRUDE O	IL .	PROD	UCTS	
API @ 60°F:		R.D. 60°F/60°F			Density	Lbs/Gal @		
S&W % VOL:								
SOURCE OF ANALYTICAL DATA	A:							
Well 1								
	V	DLUME		WCF		WEIGHT		
	BBLS	U.S.GALS/LIT	RES (t	)	POUNDS/KG	LONG TONS	METRIC TONS AIR/VAC	
VESSEL'S QUANTITIES	V.E.F. CC	PRECTED:	☐ YE	s 🗆	NO	VEF:		
TOTAL CALCULATED VOL	8150.14	342305.88	3 📑					
FREE WATER	0.00	0.00		The state of				
GROSS STANDARD VOLUME	8150.14	342305.88	-				<u> </u>	
S & W VOLUME				······				
NET) STANDARD VOLUME		1						
	WWW.					<u>L</u>		
<b>✓</b> OBQ			ROB		<del></del>		·	
C. OBQ			NOB					
IQUID MATERIAL							<i>-</i>	
	0.00	0.00						
NON-LIQUID MATERIAL	0.00	0.00						
REE WATER		0.00						
TOTAL	0.00	0.00	_					
		<u> </u>				L	L	
LOADED QUANTIT	TES.		JISCHAD	GED QUA	NTITIES			
LUMDED GUMNIII		L 1		450 G04	HTTHES			
TOTAL CALCULATED VOL	8150.14	342305.88						
REE WATER							**************************************	
BROSS STANDARD VOLUME					<u> </u>		7	
& W VOLUME	·							
NET) STANDARD VOLUME								
ARE SLOPS INCLUDED IN CALC	CULATIONS	YES		NO	NO S	LOPS ON BOARD		
STOWAGE O/B VESSEL:								
REMARKS:								

1		

174	* 12.45 / 12.5 / 1
PORT / TERMINAL: Lake Charles, La / Citgo	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 7 VOY #:	INSPECTOR(S): JOE BUSBY
DATE: 8/18/2008	SGS FILE: 111526
CARGO: Spent Caustic	CLIENT: CES Environmental REF: TBD

SGS

## **TIME LOG**

VEAR 2008 / MONTH         JAN         FEB         MAR         APR         MAY         JUN         JUL         AUG         SEP         OCT         NO           9718         23:30         INSPECTOR NOTIFIED         INSPECTOR NOTIFIED         878         23:35         VESSEL ARRIVED         879         90:15         VESSEL DOCKED         879         90:15         VESSEL DOCKED         879         90:10         COMMENCED PRE LOAD DECK INSPECTION         879         90:10         COMMENCED PRE LOAD DECK INSPECTION         879         90:10         COMMENCED PRE LOAD DECK INSPECTION         879         90:10         COMMENCED LOADING         879         90:10         COMMENCED LOADING         879         90:20         COMMENCED LOADING         879         90:20         COMMENCED LOADING         879         90:20         INSPECTOR NOTIFIED         979         90:20         90:30         INSPECTOR NOTIFIED         979         90:30         190:30         190:30         190:30         190:30	J	uð	• • • • • • • • • • • • • • • • • • • •		Oil	Gas & Cher	emicals Services Division.			
Design	5	✓ AT LOAD	NG AT TRANS	SFER			AT DISCH	ARGE		
23.00   INSPECTOR NOTIFIED		YE	AR 2008 / MONTH JAN FEB MAR	APR MAY	JUN JUL	AUG S	EP OCT	NOV	DE	
23.35	Date	Hour								
3019   00:15	3/18	23:00	INSPECTOR NOTIFIED							
3019   00:45   SHORE TANK 182 GAUGED, TEMPERATURED and SAMPLED OPEN   3/19   01:00   COMMENCED PRE LOAD DECK INSPECTION   3/19   01:05   COMPLETED PRE LOAD DECK INSPECTION   3/19   01:05   COMPLETED PRE LOAD DECK INSPECTION   3/19   01:05   IX5 CARGO CHICKSAN CONNECTED   3/19   03:20   COMMENCED LOADING   3/19   03:30   INSPECTOR DEPARTED   3/19   20:00   INSPECTOR NOTIFIED   3/19   20:00   INSPECTOR NOTIFIED   3/19   20:10   LOADING SUSPENDED   3/19   20:10   SHORE TANKS GAUGED and TEMPERATURED CLOSED   3/19   20:10   SHORE TANKS GAUGED AND TEMPERATURED CLOSED   3/19   20:10   SHORE TANK 182 GAUGED, TEMPERATURED and SAMPLED OPEN   3/10   SHORE TANK 182 GAUGED, TEMPERATURED and SAMPLED OPEN   3/10   SHORE TANK 182 GAUGED, TEMPERATURED and SAMPLED OPEN   3/10   SHORE TANK 182 GAUGED, TEMPERATURED   3/10   SHORE TANK 182 GAUGED, TEMPERATURED   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10   3/10	3/18	23:35	VESSEL ARRIVED							
1979   01:00   COMMENCED PRE LOAD DECK INSPECTION	3/19	00:15								
01:05   COMPLETED PRE LOAD DECK INSPECTION     01:45   136 CARGO CHICKSAN CONNECTED     03:40   03:20   COMMENCED LOADING     03:40   03:20   INSPECTOR DEPARTED     03:40   19:00   INSPECTOR NOTIFIED     03:40   20:00   INSPECTOR ARRIVED     04:40   20:10   LOADING SUSPENDED     04:40   20:10   SHORE TANKS GAUGED and TEMPERATURED CLOSED     04:40   07:00   INSPECTOR NOTIFIED     04:40   07:60   INSPECTOR NOTIFIED     04:40   08:10   SHORE TANK 182 GAUGED, TEMPERATURED and SAMPLED OPEN     04:40   16:30   INSPECTOR NOTIFIED     04:40   COMMENCED POSTLOAD DECK INSPECTION     04:40   COMMENCED POSTLOAD DECK INSPECTION     04:40   COMMENCED POSTLOAD DECK INSPECTION     04:40   COMPLETED FINAL CALCULATIONS     04:40   CO	3/19	00:45			PLED OPEN					
1145	3/19	01:00				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
03:20   COMMENCED LOADING     03:30   INSPECTOR DEPARTED     03:30   INSPECTOR DEPARTED     04:19   20:00   INSPECTOR NOTIFIED     04:19   20:10   LOADING SUSPENDED     04:19   21:00   SHORE TANKS GAUGED and TEMPERATURED CLOSED     04:20   07:50   INSPECTOR ARRIVED     04:20   07:50   INSPECTOR ARRIVED     04:20   08:10   SHORE TANK 182 GAUGED, TEMPERATURED and SAMPLED OPEN     04:20   12:10   RESUMED LOADING     04:20   16:30   INSPECTOR NOTIFIED     04:20   16:30   INSPECTOR ARRIVED     04:20   16:40   COMMENCED POSTLOAD DECK INSPECTION     04:20   17:05   FINISHED LOADING     04:20   17:10   COMPLETED POSTLOAD DECK INSPECTION     05:20   17:10   COMPLETED POSTLOAD DECK INSPECTION     05:20   17:10   COMPLETED POSTLOAD DECK INSPECTION     06:20   17:10   COMPLETED POSTLOAD DECK INSPECTION     07:20   17:20   17:20   17:20   17:20   17:20   17:20   17:20   17:20   17:20   17:20   17:20   17:20   17:20   17:20   17:20   17:20   17	3/19	01:05		<b>V</b>						
19:00	3/19	01:45	1X6 CARGO CHICKSAN CONNECTED							
19:00	3/19	03:20								
	/19	03:30	INSPECTOR DEPARTED							
	/19	19:00	INSPECTOR NOTIFIED							
	L	20:00	INSPECTOR ARRIVED							
	/19	<u>l</u>		ED CLOSED						
	/20									
12:10	/20	07:50								
				ED and SAMP	LED OPEN					
16:30   INSPECTOR ARRIVED     16:40   COMMENCED POSTLOAD DECK INSPECTION     17:05   FINISHED LOADING     17:10   COMPLETED POSTLOAD DECK INSPECTION     17:10   COMMENCED FINAL CALCULATIONS     18:25   6" HOSE OFF     19:40   COMPLETED FINAL CALCULATIONS     19:40   COMPLETED FINAL CALCULATIONS     10:40   INSPECTOR DEPARTED     10:40   DELAYS AND STOPPAGES :	/20									
16:40										
17:05	/20									
720 17:10 COMPLETED POSTLOAD DECK INSPECTION 720 17:10 COMMENCED FINAL CALCULATIONS 720 18:25 6" HOSE OFF 720 19:40 COMPLETED FINAL CALCULATIONS 720 20:35 INSPECTOR DEPARTED  DELAYS AND STOPPAGES:				ON						
720 17:10 COMMENCED FINAL CALCULATIONS 720 18:25 6" HOSE OFF 720 19:40 COMPLETED FINAL CALCULATIONS 720 20:35 INSPECTOR DEPARTED  DELAYS AND STOPPAGES:		17:05								
18:25 6" HOSE OFF V20 19:40 COMPLETED FINAL CALCULATIONS V20 20:35 INSPECTOR DEPARTED  DELAYS AND STOPPAGES:				N						
19:40 COMPLETED FINAL CALCULATIONS 1/20 20:35 INSPECTOR DEPARTED  DELAYS AND STOPPAGES:									*********	
DELAYS AND STOPPAGES:										
DELAYS AND STOPPAGES:				******						
	/20	20:35	INSPECTOR DEPARTED	· · · · · · · · · · · · · · · · · · ·					•	
	1									
	#									
ES MARKED * ARE SUBMITTED TO US.  TIME LOG PAGE 1	DE	LAYS AND S	OPPAGES:					***************************************		
ES MARKED * ARE SUBMITTED TO US.  TIME LOG PAGE	1									
IES MARKED * ARE SUBMITTED TO US.  TIME LOG PAGE 1	1							**********		
IES MARKED * ARE SUBMITTED TO US. TIME LOG PAGE										
	IES N	ARKED * AR	SUBMITTED TO US.			TIM	E LOG PAG	E O	F	

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F-10			·					Page 35 of 2:
PORT / TERMINA	L: Lake Charles	, La	Citgo		OFFICE LAKE	CHARLES, LA	TEL (337) 625-1455	
VESSEL CCL 7			VOY#		INSPECTOR(S):		SGS FILE 111526	·
CARGO Spent C	austic				CLIENT CESE	Environmental	REF TBD	·····
CCC			SHOR	E TANK ME	ASUREMENT	S (STATIC)		
<u> </u>		~	AT LOADING		T TRANSFER	AT DISCHARGE	Oil Gas & Chemicals	Services Division.
SHORETANK #	182	REF HEI	GHT:	(	GAUGE UNITS	Ø FT-IN □ FT □	MM OTHER:	
	E: 8/19/2008			E:8/19/2008 T	TIME: 21:00		OPEN	CLOSE
OBS. REF. HEIGHT	§ INNAGE	×WATER INNAGE	OBS. REF. HEIGHT	§ INNAGE	= WATER INNAGE	INSPECTOR:	JOE BUSBY	MIKE ELLIOTT
28-9	26-3-1/2	0-0-0	11-4-1/2	8-11-1/4	0-0-0	WITNESS:		
						API @ 60°F		
						SOURCE		
						AMBIENT AIR TEMP	79.0	80.0
			<del>"</del>			TEMP OF TANK SHELL	85	86
						AVG TEMP (0.1°F)	85.5	86.8
§ MEASUREMEN	§ MEASUREMENTS TAKEN IN ACCORDANCE WITH :				MS 3.1A.9.2	AVG INNAGE	26-3-1/2	8-11-1/4
R FREE WATER D	ETERMINED IN	ACCORDANCE WITH	# 7	API MPMS 3.1A.	10.1	AVG WATER INNAGE	0-0-0	0-0-0
# TEMPERATURE	S TAKEN IN ACC	ORDANCE WITH	*	API MPMS 7.6.4		VOLUME UNITS V BB	LS M3 OTHER	ł ;
^ VOLUME CALC	ULATED IN ACC	ORDANCE WITH	:	ASTM D 1250-04		TABLE VOLUME **	8437.31	2840.02
PROD TEMP	85.7 x	0.875 = 74.9875	PROD TEMP	86.8 x	<b>0.875</b> = 75.9500	FREE WATER	0.00	0.00
(+) AIR TEMP	79.0 x	<b>0.125</b> = 9.8750	(+) AIR TEMP	80.0 x	0.125 = 10.0000	OBSERVED VOLUME	8437.31	2840.02
TANK SHELLTEM	PERATURE:	<b>=</b> 85	TANK SHELL TE	MPERATURE	= 86	TANK SHELL CORR.	1.00000	1.00032
ROOF CORRECT	ION INFO - STAN	DARD API:				OBSERVED VOLUME	8437,31	2840.93
CRITICAL ZONE I	RANGE FROM	то	ROOF	LEG HIG	H 🗌 LOW	ROOF CORRECTION	0.00	0.00
	~	OP	EN	С	LOSE	GROSS OBSERVED VOL.	8437.31	2840.93
AVG INN/ULL IN	CRITICAL ZONE	YES	✓ NO	YES	✓ NO	^VCF TABLE : (t )	1.00000	1.00000
SIDEGAUGE/ATG	i	26-2-4	26-2-4	8-9-12/1	6 8-9-13/16	GROSS STANDARD VOL.	8437.31	2840.93
TEMPERATURES		# Y PROBE	MERCURY	# Y PROBE		DIFFERENCE	559	<del>1</del> 96.38
* ACTION TAKEN	V :	U V M	85.7 L		M 86.8 L	CUSTODY TRANSFER SAM	PLE:	
***************************************		Пм		М		API @ 60°F/ DE		
**************************************		OTHER*		OTHER*	***************************************	S & W % VOL.		
SIDETEMP/REMO	OTE				***************************************	S & W VOLUME	***************************************	
PROBE WAS CHI	FCKED PRIOR TO	JUSE V YES	NO	NOT USED	**************************************	NET STANDARD VOLUME		

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OP TEMP:

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Ref TSh Temp: 60

Мз Services rendered according to published General Terms and Conditions

MT Y LBS OTHER:

OTHER:

WCF TABLE : (t

WEIGHT UNITS

GROSS STANDARD WT.

**NET STANDARD WEIGHT** 

** IS TABLE VOLUME IN

LT

BBLS

EPAHO081001498 CAL DATE : Copyright SGS-OG&C 2001 - Rev April 2005

SAMPLING

* ACTION TAKEN :

AT ULLAGES :

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F-10			Page Name of Name
PORT / TERMINAL: Lake Charles, LA	/ Citgo	OFFICE LAKE CHARLES, LA	TEL (337) 625-1455
VESSEL CCL 7	VOY#	INSPECTOR(S): JOE BUSBY	SGS FILE 111526
CARGO Spent Caustic		CLIENT CES ENVIROMENTAL	REF

SGS			SHOR		ASUREMENT	S (STATIC)		
OUO		<b>V</b>	AT LOADING		T TRANSFER	AT DISCHARGE	Oil Gas & Chemicals S	ervices Division.
SHORETANK #	182	REF HEI	GHT:		GAUGE UNITS	✓ FT-IN ☐ FT ☐	MM OTHER:	
	E:8/19/2008 1			E: 8/20/2008	TIME: 19:00		OPEN	CLOSE
OBS. REF. HEIGHT	§ INNAGE	¤WATER INNAGE	OBS. REF. HEIGHT	§ INNAGE	= WATER INNAGE	INSPECTOR:	MIKE ELLIOTT	MIKE ELLIOTT
20-6-1/4	18-0-5/8	0-0	13-0-3/4	10-7-1/2	0-0	WITNESS:		
						API @ 60°F		
						SOURCE		
_						AMBIENT AIR TEMP	78.0	79.0
						TEMP OF TANK SHELL	86	86
						AVG TEMP (0.19F)	87.2	87.2
MEASUREMEN	IS TAKEN IN ACC	ORDANCE WITH	;	INNAGE: API M	PMS 3.1A.9.2	AVG INNAGE	18-0-5/8	10-7-1/2
FREE WATER C	ETERMINED IN A	CCORDANCE WITH	:	API MPMS 3.1A	.10.1	AVG WATER INNAGE	0-0	0-0
* TEMPERATURE	S TAKEN IN ACC	ORDANCE WITH	:	API MPMS 7.6.4		VOLUME UNITS 🗸 BB	LS M3 OTHER	:
VOLUME CALC	ULATED IN ACCO	RDANCE WITH		ASTM D 1250-0	1	TABLE VOLUME **	5779.64	3384.21
PROD TEMP	87.2 x (	<b>0.875</b> = 76.3000	PROD TEMP	87.2 x	<b>0.875</b> = 76.3000	FREE WATER	0.00	0.00
(+) AIR TEMP	78.0 x (	<b>0.125</b> = 9.7500	(+) AIR TEMP	79.0 x	<b>0.125</b> = 9.8750	OBSERVED VOLUME	5779.64	3384.21
TANK SHELLTEM	PERATURE:	= 86	TANK SHELL TE	MPERATURE	<b>=</b> 86	TANK SHELL CORR.	1.00032	1.00032
ROOF CORRECT	ON INFO - STAND	DARD API:	•			OBSERVED VOLUME	5781.49	3385.29
CRITICAL ZONE I	RANGE FROM	то	ROOF	LEG HIG	SH LOW	ROOF CORRECTION	0.00	0.00
**************************************		OF	EN		LOSE	GROSS OBSERVED VOL.	5781.49	3385.29
AVG INN/ULL IN	CRITICAL ZONE	YES	NO	YES	□ NO	^VCF TABLE : (t )	1.00000	1.00000
SIDEGAUGE/ATG		17-10-15/16	17-10-15/16	10-5-13/16 10-5-11/16 GROSS STANDARI			5781.49	3385.29
TEMPERATURES	ō <b>t</b>	# PROBE	MERCURY	# PROBI	MERCURY	DIFFERENCE	239	6.20
* ACTION TAKEN	I:	U V M	87.2 🗍 L	U V	M 87.2 L	CUSTODY TRANSFER SAM	PLE:	
		□ M		M		API @ 60ºF/ DE		
		OTHER*	······································	OTHER*		S & W % VOL.	***************************************	
SIDETEMP/REMO	TE				**************************************	S & W VOLUME	***************************************	
PROBE WAS CHI	CKED PRIOR TO	USE YES	NO	NOT USED		NET STANDARD VOLUME		
SAMPLING		U N	ı OL	U	M OL	WCF TABLE : (t )		
* ACTION TAKE	1:	От Ов	B	Т	в Пя	GROSS STANDARD WT.		
***************************************		OTHER*		OTHER*		NET STANDARD WEIGHT		
AT ULLAGES:		1		<u> </u>		WEIGHT UNITS LT	MT LBS	OTHER:
CAL DATE :		Ref TSh Temp :	60	OP TEMP :	**************************************	** IS TABLE VOLUME IN		OTHER:
Copyright SGS-OG&	C. 2001 - Rev April 2					<u> </u>	red according to published G	······································

F-15	TERRAINIAI -	Lake Charles,	10	/ City	30		OFFICE: LAK	E CHARLES	IΔ	TEL - (337)	825-1455	1455						
	CCL 7	Lake Chanes,	La	VOY			OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455  INSPECTOR(S): JOE BUSBY SGS FILE: 111526											
DATE:		OOO CARCO	Pront Causti		Tr.		CLIENT: CES			REF: TBD	11020							
DATE:	8/18/2	2008 CARGO:	Spent Causti		SOEL MEAGUE	) CRACAL	<del></del>											
SI	?S			VE	SSEL MEASUF	prosess.	DEPARTURE	Y OPEN	CLOSE / F		hemicale S	ervices Division.						
	V ΔTΙ	OADING	AT TRANS	HIDMENT	AT DISCHAR	-	F	O TANKS	RALL	AST TANKS	······································	N/OTHER CARG						
UNITS		FT-IN	FT			OTHER:	1		BBLS	U.S. GALS	M³	OTHER:						
		OBSERVED REFERENCE HEIGHT	■ INNAGE	WATER INN	TEMPERATURES °F § PROBE	AVG. TEMP	CORRECTED	TOTAL OBSERVED VOLUME	FREE WATER	GROSS OBSERVED VOLUME	^ V.C.F.	GROSS STANDARD VOLUME	*					
1C	15-7	15-7	11-4-3/8	0-0-0	86.0	86.0	11-4-3/8	2912.69	0.00	2912.69	1.00000	2912.69	C					
2C	15-7	15-7	10-0-1/2	0-0-0	85.9	85.9	10-1-5/8	2620.81	0.00	2620.81	1.00000	2620.81	С					
3С	15-7-1/4	15-7-1/4	10-0-0	0-0-0	86.1	86.1	10-0-0	2616.64	0.00	2616.64	1.00000	2616.64	C					
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PROBE	MAS CHECKI	ED PRIOR TO US	E V YE	S N	IO NOT USE	 =D	TOTALS	8150.14	0.00	8150.14		8150.14	+					
GAUGE LOCATION: STANDPIPE G.H. on Expansion Trunk						CORRECT	ED MEASURE	: w = Wedge	corrected, t = Tri	ـــا m corrected	<u> </u>							
		OTHER					API @				IRCE :	***************************************	I					
* GAU	GE POSITIO	N: C = Center	of tank F = Fo	orward of Ce	nter A = Aft of Cente	r	S&W-VOL%	· :			IRCE :							
SAMPL	ES DRAWN	: 1 QUART I	RUNNING PE	R TANK		·	S&W-VOL:		The second secon	WCF TABL	-E : (t	)						
<del></del>							NET STANDAR	RD VOLUME	······································			·						
BALLA	ST TANKS I	PERMANENT	YES	F NO	(SEE F-15 BALLAST	TANKS)	GROSS STANI	DARD WEIGHT	Г									
SEASU	ICTION SEA	L #'S :					NET STANDAR	RD WEIGHT			**************	<u></u>	***************************************					

DRAFT: FWD (P) 9-6 AFT (P) 9-6 LIST: ⁹ (P) / (S) TOTAL CALC. VOL. DEPARTURE 8150.14 (S) 9-6 (S) 9-6 REMARKS: ^ VOLUME CALCULATED IN ACCORDANCE WITH SEA CONDITION: CALM IN PORT ASTM D 1250-04 I LIQUID LEVEL GAUGES IN ACCORDANCE WITH JOE BUSBY API MPMS 17.2.5.2 STEMPERATURE DETERMINATION IN ACCORDANCE WITH VESSEL'S STAFF INSPECTOR API MPMS 17.2.5.3 Copyright SGS-OG&C 2001 - Rev April 2005 Services rendered according to published General Terms and Conditions

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PORT / TERMINAL: Lake Charles, La	/ Citgo	OFFICE: LAKE CHARLES, LA	TEL: (337) 625-1455
VESSEL: CCL 7	VOY #:	INSPECTOR(S): JOE BUSBY	SGS FILE: 111526
DATE: 8/18/2008 CARGO: Spent Caustic		CLIENT: CES Environmental	REF: TBD

POH1 / TEHMINAL: Lake Charles, La / Citgo								OFFICE: LAKE CHARLES, LA IEL: (337) 625-1455					
VESSE	L:CCL 7				VOY #:			INSPECTOR(S): JOE BUSBY SGS FILE: 111526					
DATE:	8/18/20	08 <b>CARGO</b> : 5	Spe	nt Caustic				CLIENT: CE	S Environment	tal	REF: TE	3D	
S	SE					OBQ DO NOT USE V.			SUREMEN' IS NOT TAKEN	T	Oil Gas 8	& Chemicals Servic	es Division.
UNITS	<b>Y</b> F	T-IN		FT	ММ	0	THER:		UNITS: 🗸	BBLS	U.S. GALS	[	THER:
TANK #	REFERENCE HEIGHT	OBSERVED REFERENC E HEIGHT	•	OBSERVED INNAGE	FREE WATER INNAGE	NON-LIQUID INNAGE	AVG. TEMP	CORRECTED MEASURE	TOTAL OBSERVED VOLUME	^ V.C.F.	FREE WATER VOLUME	NON-LIQUID VOLUME	LIQUID VOLUME
1C	VISUAL	VISUAL	С	0-0-0	0-0-0	0-0-0	60	0-0-0	0.00	1.00000	0.00	0.00	0.00
2C	VISUAL	VISUAL	C	0-0-0	0-0-0	0-0-0	60	0-0-0	0.00	1.00000	0.00	0.00	0.00
зС	VISUAL	VISUAL	С	0-0-0	0-0-0	0-0-0	60	0-0-0	0.00	1.00000	0.00	0.00	0.00
		<b>*</b>	T										
<b>WINE CO. 1</b>			1				<u> </u>	1			······································		
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Ministrativa markania markani			<del>                                     </del>				1						
			T										
			T										
^ V(	DLUME CALCUL	ATED IN ACCO	ADAI	VCE WITH	ASTM D 12	250-04		TOTALS	0.00		0.00	0.00	0.00
On I	ehalf of our clic	ent(s) we would I	ike t	o bring to your a	ttention that in	our opinion :		d = dip, u =	: Ullage; correct	ed measure,	w = Wedge c	orrected, t = Trim	corrected
		Bbls of L	IQL	JID MATERI	AL			GAUGE LO	CATION: 🗆	STANDPIPE	✓ G.I	ا. on Expansion tru	ınk
		Rhie of N	ON	-LIQUID MA	TEDIAL				ОТНЕ				
								* GAUGE P	OSITION: C = C	enter of tank	F = Forward	of Center A = Aft o	Center
		our vessel. To the naterial belongs						OBQ SAN	IPLED	YES 🗸	NO IF NO	REASON	
		ble to do so plea				right to eask						**************************************	
In any event, we have to advise our client(s) of the above and reserve his right to seek compensation for the undelivered amount.						OBQ TES	TED	YES 🗸	NO IF NO	REASON			
		gards to flowabili sponsibility for S		id similiar adviso	ory services exp	ress personal						***************************************	nich werther the second se
								ROB SAN	IPLED	YES 🗸	NO IF NO	REASON	
<del></del>				*******		***************************************	······································		······································				······································
	TO THE PERSONNEL PROPERTY OF THE PERSONNEL P				······································			DRAFT:	FWD (P) 2-0	· · · · · · · · · · · · · · · · · · ·	AFT (P) 2-6	LIST	: º (P) / (S)
					JO	E BUSBY			<b>(S)</b> 2-0	***************************************	<b>(S)</b> 2-6		

SEA CONDITION: CALM IN PORT

INSPECTOR

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VESSEL'S STAFF

Services rendered according to published General Terms and Conditions

Page 1 of 1

F-7									
PORT / TERMIN	IAL: Lake Charles	s, La / Citgo		OFFICE: LA	KE CHAR	LES, LA	TEL:	(337) 625-1	455
VESSEL: CCL 7	7	VOY#:		INSPECTOR(S	S): JOE E	BUSBY			
DATE: 8/18/200	08			SGS FILE: 1	111526				
CARGO: Spent	Caustic			CLIENT: CE	S Environ	mental	REF:	TBD	
CCC		INFO	RMATION FOR	R CLEANLINE	ESS INSF				
				1		Oil Gas	& Chemi	cals Services	Division.
✓ AT LOADING			AT DISCHARGE		П ѕног			VESSEL	
	HE INFORMATION ON 1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	LIRIS F-9 WAS SUB	MITTED TO US		ON(S) INDICA	ATED BELOW	
7	ED FOR TANK INS			Tang in the second	1:0				
<del></del>	ESSEL'S STAFF	BARG	E OPERATOR	✓ TERMI	NAL REPR	ESENTATIV	<u>'E                                    </u>	CHARTE	RER
OTHER (SI	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				<del>~~~</del>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	····		
PLEASE PRIN	1 NAME(S)				***************************************				
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TANK MATERIA	VL:								
TANK #:		1-3 C							
MATERIAL COATING NAME	<del>-</del>	MILD STEEL							
APPARENT CO		NONE							
TANK #:	יאטוויטאי.	ACCEPTABLE				_			
MATERIAL									
COATING NAME	<u> </u>								
		<u> </u>							
APPARENT CO	NDITION *					Į		1	
APPARENT COI	NDITION . CHECKED AGAIN	ST MANUF	ACTURERS	OTHER (SP	ECIFY)		CHE	CKLIST	
	CHECKED AGAIN	ST MANUF	ACTURERS	OTHER (SP	ECIFY)		CHE	CKLIST	
COATING WAS	CHECKED AGAIN ED, REASO					PERCENTA			nons)
COATING WAS IF NOT CHECKE * SELECT:	CHECKED AGAIN ED, REASO	% DISCOLORE	D %PEELING A	ACCEPTABLE (	etc. (ALL F		GES ARE		ΠONS)
COATING WAS IF NOT CHECKE * SELECT: OUR INSPECTION FO	CHECKED AGAIN ED, REASO e.g. % MISSING OR F-9 COVERS THE CLI	% DISCOLORE	D %PEELING A	ACCEPTABLE (	etc. (ALL F		GES ARE		TIONS)
COATING WAS IF NOT CHECKE * SELECT: OUR INSPECTION FO  PREVIOUS CAF	CHECKED AGAIN ED, REASO  e.g. % MISSING on F-9 COVERS THE CLI	% DISCOLORE	D %PEELING A	ACCEPTABLE (	etc. (ALL F	CONTAMINATI	GES ARE	APPROXIMA	
COATING WAS  IF NOT CHECKE  * SELECT:  DURINSPECTION FO  PREVIOUS CAF  TANK#	CHECKED AGAIN ED, REASO e.g. % MISSING OR F-9 COVERS THE CLI RGOES: THIRD	% DISCOLORE	D %PEELING A OATINGS, NOT ITS SU SECONI	ACCEPTABLE (	etc. (ALL F	CONTAMINATI LAST	GES ARE	APPROXIMA*	PATIBLE
COATING WAS  IF NOT CHECKE  * SELECT:  DUR INSPECTION FO  PREVIOUS CAF  TANK#	CHECKED AGAIN ED, REASO  e.g. % MISSING on F-9 COVERS THE CLI	% DISCOLORE	D %PEELING A	ACCEPTABLE (	etc. (ALL F	CONTAMINATI LAST	GES ARE	COMF	'ATIBLE NO
COATING WAS  IF NOT CHECKE  * SELECT:  DURINSPECTION FO  PREVIOUS CAF  TANK#	CHECKED AGAIN ED, REASO e.g. % MISSING OR F-9 COVERS THE CLI RGOES: THIRD	% DISCOLORE	D %PEELING A OATINGS, NOT ITS SU SECONI	ACCEPTABLE (	etc. (ALL F	CONTAMINATI LAST	GES ARE	COMF	PATIBLE NO NO
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COATING WAS  IF NOT CHECKE  * SELECT:  DURINSPECTION FO  PREVIOUS CAF  TANK#	CHECKED AGAIN ED, REASO e.g. % MISSING OR F-9 COVERS THE CLI RGOES: THIRD	% DISCOLORE	D %PEELING A OATINGS, NOT ITS SU SECONI	ACCEPTABLE (	etc. (ALL F	CONTAMINATI LAST	GES ARE	COMF  YES  YES  YES  YES  YES	PATIBLE NO NO NO NO
COATING WAS  IF NOT CHECKE  * SELECT:  DURINSPECTION FO  PREVIOUS CAF  TANK#	CHECKED AGAIN ED, REASO e.g. % MISSING OR F-9 COVERS THE CLI RGOES: THIRD	% DISCOLORE	D %PEELING A OATINGS, NOT ITS SU SECONI	ACCEPTABLE (	etc. (ALL F	CONTAMINATI LAST	GES ARE	COMF YES YES YES YES YES YES	PATIBLE NO NO NO NO
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COATING WAS IF NOT CHECKE * SELECT: DURINSPECTION FO  PREVIOUS CAF TANK# -3 C	CHECKED AGAIN ED, REASO e.g. % MISSING OR F-9 COVERS THE CLI RGOES: THIRD CAUSTIC	% DISCOLORE	D %PEELING A OATINGS, NOT ITS SU SECONI	ACCEPTABLE (	etc. (ALL F	CONTAMINATI LAST	GES ARE	COMF YES YES YES YES YES YES YES YES	ATIBLE NO NO NO NO NO
COATING WAS IF NOT CHECKE * SELECT: DURINSPECTION FO  PREVIOUS CAF TANK# 3 C	CHECKED AGAIN ED, REASO e.g. % MISSING OR F-9 COVERS THE CLI RGOES: THIRD CAUSTIC	% DISCOLORE EANLINESS OF THE C	D %PEELING A DATINGS, NOT ITS SU  SECONI CAUSTIC	ACCEPTABLE (	etc. (ALL F	LAST	GES ARE A	COMF YES YES YES YES YES YES YES YES YES	ATIBLE NO NO NO NO NO NO NO NO NO
COATING WAS IF NOT CHECKE * SELECT: DURINSPECTION FO  PREVIOUS CAF TANK# -3 C	CHECKED AGAIN ED, REASO e.g. % MISSING OF F-9 COVERS THE CLI RGOES: THIRD CAUSTIC CAUSTIC	% DISCOLORE EANLINESS OF THE C	D %PEELING A DATINGS, NOT ITS SU  SECONI CAUSTIC	ACCEPTABLE (ITABILITY IN REGAR	etc. (ALL F	LAST	GES ARE A	COMF YES	PATIBLE NO NO NO NO NO NO
COATING WAS IF NOT CHECKE * SELECT: DURINSPECTION FO  PREVIOUS CAF TANK# 3 C	CHECKED AGAIN ED, REASO e.g. % MISSING OF F-9 COVERS THE CLI RGOES: THIRD CAUSTIC CAUSTIC	% DISCOLORE EANLINESS OF THE C	D %PEELING A DATINGS, NOT ITS SU  SECONI CAUSTIC	ACCEPTABLE (ITABILITY IN REGAR	etc. (ALL F	LAST	SSED WIT	COMF YES	PATIBLE NO
COATING WAS IF NOT CHECKE * SELECT: DURINSPECTION FO  PREVIOUS CAF TANK# 3 C	CHECKED AGAIN ED, REASO e.g. % MISSING OF F-9 COVERS THE CLI RGOES: THIRD CAUSTIC CAUSTIC	% DISCOLORE EANLINESS OF THE C	D %PEELING A DATINGS, NOT ITS SU  SECONI CAUSTIC	ACCEPTABLE (ITABILITY IN REGAR	etc. (ALL F	LAST PRE YES	SSED WIT	COMF YES	PATIBLE NO NO NO NO NO NO NO SAAIR
COATING WAS IF NOT CHECKE * SELECT: OUR INSPECTION FO  PREVIOUS CAF TANK# -3 C	CHECKED AGAIN ED, REASO e.g. % MISSING OF F-9 COVERS THE CLI RGOES: THIRD CAUSTIC CAUSTIC	% DISCOLORE EANLINESS OF THE C	D %PEELING A DATINGS, NOT ITS SU  SECONI CAUSTIC	ACCEPTABLE (ITABILITY IN REGAR	etc. (ALL F	PRE YES YES	SSED WIT	COMF YES YES YES YES YES YES YES YES YES PRESSURE	PATIBLE NO NO NO NO NO NO NO S/AIR
COATING WAS  IF NOT CHECKE  * SELECT:  OUR INSPECTION FO  PREVIOUS CAF  TANK#  -3 C	CHECKED AGAIN ED, REASO e.g. % MISSING OF F-9 COVERS THE CLI RGOES: THIRD CAUSTIC CAUSTIC	% DISCOLORE EANLINESS OF THE C	D %PEELING A DATINGS, NOT ITS SU  SECONI CAUSTIC	ACCEPTABLE (ITABILITY IN REGAR	etc. (ALL F	PRE YES YES	SSED WIT	COMF YES YES YES YES YES YES YES YES YES PRESSURE PRESSURE	PATIBLE NO NO NO NO NO NO NO NO S/AIR
COATING WAS IF NOT CHECKE * SELECT: OUR INSPECTION FO  PREVIOUS CAF TANK# -3 C  LINES - PUMPS NAME	CHECKED AGAIN ED, REASO e.g. % MISSING OF F-9 COVERS THE CLI RGOES: THIRD CAUSTIC CAUSTIC	% DISCOLORE EANLINESS OF THE C	D %PEELING A DATINGS, NOT ITS SU  SECONI CAUSTIC  LAS	T USED FOR	etc. (ALL F	PRE YES YES YES YES	SSED WIT NO NO NO NO	COMF YES YES YES YES YES YES YES YES YES PRESSURE PRESSURE PRESSURE	PATIBLE NO NO NO NO NO NO NO S/AIR
COATING WAS IF NOT CHECKE * SELECT: OUR INSPECTION FO  PREVIOUS CAF TANK# -3 C  LINES - PUMPS NAME	CHECKED AGAIN ED, REASO e.g. % MISSING F-9 COVERS THE CLI RGOES: THIRD CAUSTIC	% DISCOLORE EANLINESS OF THE C  LAST  FRIAL  N OF THE CARGO PUR	D %PEELING A DATINGS, NOT ITS SU  SECONI CAUSTIC  LAS	T USED FOR	etc. (ALL F D TO CARGO  CAUSTIC	PRE YES YES YES YES	SSED WIT NO NO NO NO IT IS RECOMMINIMIZE CAR	COMF YES YES YES YES YES YES YES YES PRESSURE OF CONTAMINA	PATIBLE NO NO NO NO NO NO NO S/AIR
COATING WAS IF NOT CHECKE * SELECT: OUR INSPECTION FO  PREVIOUS CAF TANK# -3 C  LINES - PUMPS NAME  THE CL "LINE" SAM	CHECKED AGAIN ED, REASO e.g. % MISSING RF-9 COVERS THE CLI RGOES: THIRD CAUSTIC  S: MATE	% DISCOLORE EANLINESS OF THE C  LAST  CRIAL  N OF THE CARGO PUT JENCING THE TRANSF	D %PEELING A DATINGS, NOT ITS SU  SECONI CAUSTIC  LAS	T USED FOR	etc. (ALL F D TO CARGO  CAUSTIC	PRE YES YES YES YES	SSED WIT NO NO NO NO IT IS RECOME	COMF YES YES YES YES YES YES YES YES PRESSURE	PATIBLE NO NO NO NO NO NO NO S/AIR

9	Page 1 of
PORT / TERMINAL: Lake Charles, La / Citgo	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
/ESSEL: CCL 7 VOY #:	INSPECTOR(S): JOE BUSBY
DATE: 8/18/2008	SGS FILE: 111526
CARGO: Spent Caustic	CLIENT: CES Environmental REF: TBD
SGS TANK CLEAR	NLINESS INSPECTION Oil Gas & Chemicals Services Division.
✓ AT LOADING □ AT TRANSFER □ AT DISCHARGE	☐ AS INSPECTION ONLY ☐ AS PRE-INSPECTION  WITH CUSTODY TRANSFER
USE A SEPARA	TE FORM F-9 PER INSPECTION
THIS IS THE FIRST SECOND	THIRD TH INSPECTION
TANK(S): 1-3 C	
BASED ON SUBMITTED INFORMATION (SEE LIF	RIS F-7) AND:
VISUAL CHECK FOR RESIDUES FROM	DECKLEVEL (SEE LIRIS F-15 OR F-20)
MEASURING OF RESIDUES FROM DEC	·
PHYSICAL ENTRY (TANK SAFE ATMOS	SPHERE STATEMENT BELOW MUST BE COMPLETED PRIOR TO ENTRY)
AND 🗹 VISUAL INSPECTION	
AND  WALLWASHING (ANA	ALYTICAL REPORT ON FILE)
AND TESTING OF HEATING	G COILS
WERE ACCEPTED FOR CLEANLINESS TO CARRY	A CARGO OF SPENT CAUSTIC
WERE REJECTED FOR CLEANLINESS TO CARRY A	A CARGO OF
REASON:	
SHIP'S STAFF AND/OR SGS SUPERVISOR AND/	
INSPECTION COMPLETED AT 1:05 HRS ON 1	
TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING	BERTH IN CASE OF PRE-INSPECTION
SIGNATURES :	JOE BUSBY
FOR VESSEL	FOR TERMINAL INSPECTOR
* IS THIS TANK ACCEPTANCE BASED SOLELY ON SUBMITT	
parterly	PERVISOR AND/OR CLIENT(S) IMMEDIATELY.
The state of the s	
TANK SAFF	ATMOSPHERE STATEMENT
	n line 13 of this page have been cleaned and gas freed as
ported on the reverse side of the SGS F-7 and that the	
te undersigned hereby grants permission for SGS pers  Tank Safe Atmosphere Statement signed	hours on
e undersigned hereby grants permission for SGS pers  Tank Safe Atmosphere Statement signed	hours on
e undersigned hereby grants permission for SGS pers  Tank Safe Atmosphere Statement signed  SIGNATURES:	
e undersigned hereby grants permission for SGS pers  Tank Safe Atmosphere Statement signed	hours on FOR TERMINAL

and contact your supervisor for further instructions.

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DODY / TEDSSISIA! . 1 -1-						age 1	or 100
FUNITIENMINAL: Lake	Charles, La / Citgo	OFFICE: LAKE CHA	RLES, LA	TE	L: (337	625-14	55
VESSEL: CCL 7	VOY#:	INSPECTOR(S): JOE	BUSBY				
DATE: 8/18/2008		SGS FILE: 111526					
CARGO: Spent Caustic		CLIENT: CES Enviro	onmental	RE	F: TBD		
SGS	CARGO	QUANTITY OPTION		s & Cher	nicals Se	rvices D	ivision.
✓ AT LOADING	AT TRANSFER  AT DISCHARGE	RESIDUAL	CLEAN PF	ODUCT	s ✔ CH	IEMICAL	S/GASES
ABOVE VESSEL WILL	✓ LOAD	AT THIS TERMINAL	AT (S	PECIFY)			
AS PER CHARTER	R PARTY 🗌 AMENDED C/P 🗹 PR	INCIPAL'S INSTRUCTIONS	з С	ER (SPE	CIFY)		
FOLLOWING QUANTITY(S	) OF SPENT CAUSTIC						
	) LT N	AT POUNDS	OTHE	R (SPE	IFY) 9-	6 DRAF	T
OR: (		13 OTHER	AT	STD. TE			RV. TEMP
VII. L.		To comment to	Annua -		***************************************		
THIS QUANTITY(S) IS SPE	(many many	OR MINUS	У от	HER (SP	ECIFY)	9-6 [	DRAFT
*PLUS OR MINUS	%" IS THE OPTION OF	VESSEL	TER	MINAL		CI	IENT
PLUS OR MINUS	%" IS OPTED FOR BY	VESSEL	TER	MINAL		CL	JENT
VESSEL'S CO-MINGLING		/ DISCHARGED FROM TAI ADED INTO TANK(S) 1-3 ( AL YES		OZ NO			AAA4444
CARGO REQUIRES	SEGREGATION S	SEPARATION	VOLUMET	RIC BLE	NDING		
				**			
(SIGNATURES) V	ESSEL'S STAFF :	DATE :		TIME :			
`	ESSEL'S STAFF : PRESENTATIVE :	DATE : DATE :		TIME:			
· · · · · · · · · · · · · · · · · · ·			008		1:05		
·	PRESENTATIVE :	DATE :	800	TIME:	1:05		
TERMINAL RE	PRESENTATIVE : INSPECTOR : JOE BUSBY	DATE :	008 YES	TIME:	1:05 NO		
TERMINAL RE	PRESENTATIVE : INSPECTOR : JOE BUSBY - TAKEN BY	DATE: DATE: 8/19/2		TIME:			
·	PRESENTATIVE : INSPECTOR : JOE BUSBY - TAKEN BY -TAKEN BY	DATE: DATE: 8/19/2	YES	TIME:	NO		
TERMINAL RE	PRESENTATIVE : INSPECTOR : JOE BUSBY - TAKEN BY -TAKEN BY - WITNESSE	DATE: DATE: 8/19/2: INSPECTOR TERMINAL / VESSEL	YES	TIME:	NO NO		
TERMINAL RE	PRESENTATIVE : INSPECTOR : JOE BUSBY - TAKEN BY -TAKEN BY - WITNESSE	DATE: DATE: 8/19/2: INSPECTOR TERMINAL / VESSEL	YES	TIME:	NO NO		
TERMINAL RE	PRESENTATIVE : INSPECTOR : JOE BUSBY - TAKEN BY -TAKEN BY - WITNESSE	DATE: DATE: 8/19/2: INSPECTOR TERMINAL / VESSEL	YES	TIME:	NO NO		
TERMINAL RE	PRESENTATIVE : INSPECTOR : JOE BUSBY - TAKEN BY -TAKEN BY - WITNESSE	DATE: DATE: 8/19/2: INSPECTOR TERMINAL / VESSEL	YES	TIME:	NO NO		
TERMINAL RE	PRESENTATIVE : INSPECTOR : JOE BUSBY - TAKEN BY -TAKEN BY - WITNESSE	DATE: DATE: 8/19/2: INSPECTOR TERMINAL / VESSEL	YES	TIME:	NO NO		
TERMINAL RE	PRESENTATIVE : INSPECTOR : JOE BUSBY - TAKEN BY -TAKEN BY - WITNESSE	DATE: DATE: 8/19/2: INSPECTOR TERMINAL / VESSEL	YES	TIME:	NO NO		
TERMINAL RE	PRESENTATIVE : INSPECTOR : JOE BUSBY - TAKEN BY -TAKEN BY - WITNESSE	DATE: DATE: 8/19/2: INSPECTOR TERMINAL / VESSEL	YES	TIME:	NO NO		
TERMINAL RE	PRESENTATIVE : INSPECTOR : JOE BUSBY - TAKEN BY -TAKEN BY - WITNESSE	DATE: DATE: 8/19/2: INSPECTOR TERMINAL / VESSEL	YES	TIME:	NO NO		
TERMINAL RE	PRESENTATIVE : INSPECTOR : JOE BUSBY - TAKEN BY -TAKEN BY - WITNESSE	DATE: DATE: 8/19/2: INSPECTOR TERMINAL / VESSEL	YES	TIME:	NO NO		
TERMINAL RE	PRESENTATIVE : INSPECTOR : JOE BUSBY - TAKEN BY -TAKEN BY - WITNESSE	DATE: DATE: 8/19/2: INSPECTOR TERMINAL / VESSEL	YES	TIME:	NO NO		
TERMINAL RE  ARE STOP GAUGES:  REMARKS: LOAD TO 9-	INSPECTOR: JOE BUSBY  - TAKEN BY  - TAKEN BY  - WITNESSE  6 DRAFT  ATE AND CHECK ON STOP GAUGE MEASURE OYEES ARE SOLELY RESPONSIBLE FOR OB	DATE: DATE: 8/19/2 INSPECTOR TERMINAL / VESSEL D BY INSPECTOR  EMENTS WHEN REQUIRED BY	☐ YES  ✓ YES  ✓ OUR CLIEN	TIME:	NO NO NO		ND OUT
TERMINAL RE  ARE STOP GAUGES:  REMARKS: LOAD TO 9-  NOTE: (1) WE CALCUL TERMINAL EMPL OF THE DESIGNA  (2) OUR STAFF I COMPONENTS A	INSPECTOR: JOE BUSBY  - TAKEN BY  - TAKEN BY  - WITNESSE  6 DRAFT  ATE AND CHECK ON STOP GAUGE MEASURE OYEES ARE SOLELY RESPONSIBLE FOR OB	DATE: DATE: 8/19/2: INSPECTOR TERMINAL / VESSEL D BY INSPECTOR  EMENTS WHEN REQUIRED BY ISERVATION OF STOP GAUGE RATIONS. VOLUMETRIC OR VER, DUE TO THE INHERENT	YES YES OUR CLIEN'S, VALVE SE	TIME: TIME:  TIME:  TIME:  TIME:	NO NO NO EVER, VES ID PUMPIN	IG INTO A REPARED	FROM



To: Jenny Rust SGS REF NO: 109825

CES ENVIROMENTAL

#### **SUMMARY OF FINDINGS**

#### **OPERATION**

**DISCHARGE** FROM THE "CCL-7" TO SHORE TANK 607 AT KMTEX, PORT ARTHUR, TX ON 8/10/2008 OF A CARGO DESCRIBED AS SULFIDIC CAUSTIC

#### **QUANTITY**

		DELIVERED (1)	RECEIVED (2)	DIFFERENCE	PERCENT
GSV	BARRELS U.S. GALLONS POUNDS LONG TONS METRIC TONS SHORT TONS	8,033.833 337,421.000	8,035.794 337,503.360	-1.961 -82.360	0.024 0.024

- Delivered quantity based on barge figures
   Received quantity based on shore tank(s) TANK 607
   Arrival: 8,033.83 GSV BBLS
- 4. ROB: 0.00 GSV BBLS

### TIME LOG

HME LOG	ž .	
8/10/2008	09:15	INSPECTOR NOTIFIED
	09:50	INSPECTOR ARRIVED
	09:55	COMMENCED OBQ INSPECTION
	10:10	COMPLETED OBQ INSPECTION
	10:10	S/TK 607 GAUGED OPEN
	11:10	CARGO HOSE CONNECTED
	11:35	COMMENCED DISCHARGE
	15:15	INSPECTOR NOTIFIED
	16:00	COMPLETED DISCHARGE; BARGE STOP
	16:30	INSPECTOR ARRIVED
	16:35	COMMENCED ROB INSPECTION
	16:45	COMPLETED ROB INSPECTION
	17:00	CARGO HOSE DISCONNECTED
	17:15	BARGE RELEASED BY TERMINAL
	17:20	S/TK 607 GAUGED OPEN
	17:30	INSPECTOR DEPARTED

Darren W. Le Blanc Date: 8/11/2008

SGS North America Inc.

Oil, Gas & Chemicals Services

t(409-727-1035) www.sgs.com

Member of the SGS Group (Société Générale de Surveillance)



Shore volume calculated in accordance with:

Vessel volume calculated in accordance with:

Definition of Terms as per MPMS Chapter 1.

Procedures as per applicable MPMS Chapter 3.1a, 7, 8.1 or 8.2, 12.1 or 12.2, 17.1, 17.2, 17.4.

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# Inspection Report (LOADING)

Subject: CCL 7

Date:

Our ref.: 108156 8/3/2008

Product : SULFIDIC CAUSTIC

Location: Lake Charles, La / Citgo

Client ref.:

Client: CES ENVIRONMENTAL SERVICES

Summary of Figures		Bbls @ 60°F	Gallons @ 60°F	Long Tons	Metric Tonnes	Pounds
Shore Measurements						
Total Shore figures delivered  Average API Gravity @ 60°F	GSV	7,624.82	320,242.44			
Shoretanks no(s): TANK 182,	TANK 182					
Vessel's Measurements						
Vessel's figures before loading (OBQ) Free	e Water	0.00				
Vessel's figures before loading (OBQ)	Liquid	0.00				
Vessel's figures before toading (OBQ) Nor	Liquid	0.00				
Vessel's figures before loading (OBQ)	Total	0.00	0.00			
Vessel's figures TCV on board after loading	g	8,039.28	337,649.76			
Vessel's figures TCV loaded		8,039.28	337,649.76			
Vessel's figures Free Water loaded		0.00	0.00			
Vessel's figures GSV loaded		8,039,28	337,649,76			

Cargo stowage Cargo tanks no(s):

CCL 7[1C, 2C, 3C]

#### Samples

Shore Tank 2x1 Quarts Running Barges - 1x1 Quart Running Per Cargo Tank

## Quality

None Requested

# Time Log

8/1/2008	1705	BARGE ARRIVED
	1715	BARGE DOCKED
	1740	INSPECTOR NOTIFIED
	1840	INSPECTOR ARRIVED
	1910	S/T 182 GAUGED OPEN AND SAMPLED
	2000	COMMENCED PRE-DECK INSPECTION
	2010	COMPLETED PRE-DECK INSPECTION
8/2/2008	0001	INSPECTOR DEPARTED
	0100	CARGO HOSE CONNECTED (1X6)
	0115	COMMENCED LOADING (TANKERMAN WAS LATE)
	1345	INSPECTOR NOTIFIED
	1410	LOAD SUSPENDED, LACK OF PRODUCT
	1425	INSPECTOR ARRIVED

SGS North America Inc.

Oil, Gas & Chemicals Services 4701 E. NAPOLEON SULPHUR, LA 70663 t((337) 625-1455) t((337) 625-1721) www.sgs.com

Member of the SGS Group (Société Générale de Surveillance)



	1500	CARGO HOSE DISCONNECTED
	1530	S/T 182 GAUGED CLOSED
8/3/2008	0010	INSPECTOR NOTIFIED
	0030	INSPECTOR ARRIVED
	0100	S/T 182 GAUGED OPEN
	0830	CARGO HOSE CONNECTED
	0845	RESUMED LOADING
	1245	INSPECTOR NOTIFIED
	1315	COMPLETED LOADING
	1345	INSPECTOR ARRIVED
	1400	CARGO HOSE DISONNECTED
	1450	S/T 182 GAUGED CLOSED
	1530	COMMENCED FINAL INSPECTION
	1600	COMPLETED FINAL INSPECTION
	1700	INSPECTOR DEPARTED

Steve Cross for SGS Oil, Gas & Chemicals Services 8/4/2008

Shore volume calculated in accordance with: Vessel volume calculated in accordance with: ASTM D 1250-04

Procedures as per applicable MPMS Chapter 3.1a, 7, 8.1 or 8.2, 12.1 or 12.2, 17.1, 17.2, 17.4.

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FIRCC REV. January 2007

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PORT / TERMINAL: Lake Charles, La / Citgo	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 7 VOY #:	INSPECTOR(S): TM
DATE: 8/3/2008	SGS FILE: 108156
CARGO: SULFIDIC CAUSTIC	CLIENT: CES ENVIRONMENTAL REF:

SGS

# **TIME LOG**

Oil Gas & Chemicals Services Division

	Oil Gas & Chemicals Services Division.																
	Z AT LOAD	T LOADING AT TRANSFER AT DISCHARGE  YEAR 2008 / MONTH JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC															
Date	YI Hour	EAR	2008	/ MC	HTM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC
8/1	17:05	P	ARGE	ARRIV	FD							····	····				***************************************
8/1	17:15			DOCK			·								<del></del>		
8/1	17:40			TOR N		n											
8/1	18:40			TOR A						***************************************							
B/1	19:10			GAUGE			D SAM	MPLED								,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	****
3/1	20:00			NCED										<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	······································		***************************************
3/1	20:10			ETED P							<del></del>		*		***************************************		
3/2	00:01			TOR DI									·		······································		
3/2	01:00			HOSE			(1X6)			··········							
3/2	01:15							MAN W	AS LAT	E)							***************************************
/2	13:45	***************************************		TOR N						······································					<del></del>	<del></del>	
3/2	14:10						F PRO	DDUCT	***************************************			····			······································		-
/2	14:25			TOR AF									····				
/2	15:00	С	ARGO	HOSE	DISCO	NNEC	ΓED		······································	<del></del>							
/2	15:30	S	/T 182	GAUGE	D CLC	SED							······································		<del></del>		***************************************
/3	00:10	11	ISPEC	TOR NO	OTIFIE	D									***************************************		
/3	00:30	IN	ISPEC	TOR AF	RIVE	)									T		
/3	01:00	S	T 182	GAUGE	D OP	N						······································	T				
/3	08:30	C	ARGO	HOSE	CONN	CTED							<del></del>		***************************************		
/3	08:45	R	ESUME	ED LOA	DING			·····					.,				
3/3	12:45	IN	ISPEC	TOR NO	OTIFIE	)						***************************************			· · · · · · · · · · · · · · · · · · ·		
3/3	13:15	C	OMPLE	TED L	OADIN	G							<del></del>		······································		<del></del>
/3	13:45	IN	SPEC	TOR AF	RIVE	)				·····					***************************************		
/3	14:00	C.	ARGO	HOSE	DISON	NECTE	D		······································		-y						
/3	14:50	S/	T 182 (	GAUGE	D CLC	SED						****					
/3	15:30	C	OMME	NCED F	FINAL	NSPE	CTION								***************************************		***************************************
/3	16:00	C	OMPLE	TED F	NAL II	ISPEC	TION										
3/3	17:00	IN	ISPEC1	ror de	PART	ED											
		0700	34050														
<del>-</del>	LAYS AND	31071	AGES												***************************************		
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1			***************************************							······································							
	ARKED * A	RE SU	BMITTE	ED TO U	S.			<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>				<u></u>	-	TIME LO	G PAGE	- O	F

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8. (4) \$20.	÷	1,27	- 7

PORT / TERMINAL: Lake Charles, La / Citgo	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 7 VOY #:	INSPECTOR(S): TM
DATE: 8/3/2008	SGS FILE: 108156
CARGO: SULFIDIC CAUSTIC	CLIENT: CES ENVIRONMENTAL REF:

CCC

## **VOYAGE ANALYSIS REPORT**

✓ LOADING	V-V T	RANSFER [	DISCHARGE	SUMMARY		Type of Voyage	C/P DATE
Load Port/Terminal/Berth	T	ARRIVED	SAILED	Discharge Port/T	erminal/Berth	ARRIVED	SAILED
L.C. / CITGO / C SLIP	1	8/1/2008	8/3/2008				
VOLUME UNITS		SUPPLIER	RECEIVER	VCF SHORE LOAD	VCF SHORE DISCH	VCF VESSEL LOAD	/CF VESSEL DISC
🗸 BBLS 🗌 GALS 🗌 M³ 🗌	] <b>L</b>		•				
DESCRIPTION API/DENS	TY	TCV	FW	GSV	S&W	NSV	Reference
I. COMPARISON OF SHORE	QUAN	ITITIES IN CUST	ODY TRANSFER				
Bill of Lading 1.		7624.82	0.00	7624.82			(1)
Outturn 2.							(2)
Diff. 3.		Manager Manager					(3)=(2) - (1)
Diff. % 4.		· · · · · · · · · · · · · · · · · · ·					(4) = (3) / (1) x 100
Recalc. B/L 5.	(a)		Recalculate if	B/L and O/T use d	ifferent tables.		(5) (a) Vol. Diff.
II. VESSEL/SHORE QUANTIT	IES A	T( )LOAD	PORT(S)				
Vessel Sailing	A.	8039.28	0.00	8039.28	LIQUID	NON-LIQUID	A)
OBQ (All)	В.	0.00	0.00	0.00	0.00	0.00	8)
Loaded	c.	8039.28	0.00	8039.28			(C)=(A) ~ (B)
Difference	D.	414.46	0.00	414.46			(D)=(C)-((1) or (5)]
Difference %	E.	5.44%		5.44%			(E)=(D)/[(1)or(5)]x100
Load Vessel Ratio	F.	1.0544					(F)=(C)/[(1)or(5)]
Load VEF	G.	0.00000					(G)
Theoretical Shore	Н.	0.00					(H)≈(C) / (G)
Theoretical Shore Diff.		-7624.82					(l)=(H) - [(1) or (5)]
Theoretical Shore Diff. %	<u>.</u>	-100.00%					(J)=(I)/[(1) or (5)]×100
			*******				
II. VESSEL/SHORE QUANTIT Vessel Arrival	K.	I ( ) DISCI	HARGE PORT(S)	)	LIQUID	NON-LIQUID	(K)
ROB (All)		· · · · · · · · · · · · · · · · · · ·					L)
Discharged	M.						(M) = (K) - (L)
Difference	N.						(N) = (2) - (M)
Difference %	0.	<del></del>					$(O) = (N) / (2) \times 100$
							(P) = (M) / (2)
Discharge Vessel Ratio	P.	***************************************					(P) = (M) / (E)
Discharge VEF	Q.						$(\mathbf{Q}) = (\mathbf{M}) / (\mathbf{Q})$
Theoretical Shore	R.						
Theoretical Shore Diff.	S.	·····					(S) = (2) - (R)
Theoretical Shore Diff. %	Т.						$(T) = (S) / (2) \times 100$
III. VESSEL/'S COMPARISON		DADING AND DIS	CHARGE PORT(S	) VCF TABLE M	UST BE CONSIST		
Transit Difference	U.		<u> </u>				(U) = (K) · (A)
Difference %	V.				LIQUID	(1017 E10012	$(V) = (U) / (A) \times 100$
DBQ/ROB Difference	W.						W) = (L) - (B)
ADJ TCV DIFF : (	Quant		OBQ (B) + ROB (L)	[S S&W at Load Port	&W(1)/GSV(1)]X100 :;	(S S&W at Disch Por	&W(2)/GSV(2)]X100 t:
Comments :							
Prepared by: TIM MC DONA	1 1	Fitle: IN:	SPECTOR	Company :	SGS	Date Completed :	8/3/2008

F-1		Page	i oi

PORT / TERMINAL: Lake Charles, La / Citgo	OFFICE LAKE CHARLES, LA TEL (337) 625-1455
VESSEL CCL 7 VOY#	INSPECTOR(S): TM
DATE 8/3/2008	SGS FILE 108156
CARGO SULFIDIC CAUSTIC	CLIENT CES ENVIRONMENTAL REF

SGS	SHORE QUANTITY SUMMARY
CARGO SULFIDIC CAUSTIC	CLIENT CES ENVIRONMENTAL REF
DATE 8/3/2008	SGS FILE 108156
VESSEL CCL 7 VOY#	INSPECTOR(S): TM
PORT / TERMINAL: Lake Charles, La / Citgo	OFFICE LAKE CHARLES, LA TEL (337) 625-1455

✓ AT LOADING □ AT TRANS	AT LOADING AT TRANSFER A			TANK (STATIC)	METE	R (DYNAMIC)
CUSTODY TRANSFER SAMPLE						
API @ 60°F :		R.D. 60°F/60°F	· · · · · · · · · · · · · · · · · · ·	Densi	ty Lbs/Gal @	
S&W % VOL:						
SOURCE OF ANALYTICAL DATA:		,				
	UNITS	TANK 182	TANK 182	TANK/METER	TANK/METER	TANK/METER
TOTAL CALCULATED VOLUME	BBLS	5847.26	1777.56			
FREE WATER	BBLS	0.00	0.00			
GROSS STANDARD VOLUME	BBLS	5847.26	1777.56			
S & W VOLUME	BBLS					
(NET) STANDARD VOLUME	BBLS					**************************************
WCF TABLE (I )			······································			
GROSS STANDARD WEIGHT	LBS		· · · · · · · · · · · · · · · · · · ·			
S & W WEIGHT	LBS					
NET) STANDARD WEIGHT	LBS					
	UNITS	TANK/METER	TANK/METER	SHORELINE	TOTAL DE	LIVERED
TOTAL CALCULATED VOLUME	BBLS				7624	1.82
FREE WATER	BBLS				0.0	00
COOCC CTANDADO VOI LUXE	BBLS				7624	1.82
SHOSS STANDARD VOLUME	DDLG					
	BBLS					, , , , , , , , , , , , , , , , , , , ,
S & W VOLUME	<u> </u>					
S & W VOLUME  NET) STANDARD VOLUME	BBLS BBLS				☑ GSV ☐ NSV	
S & W VOLUME  NET) STANDARD VOLUME  GROSS STANDARD WEIGHT	BBLS				☑ GSV ☐ NSV	
S & W VOLUME  NET) STANDARD VOLUME  GROSS STANDARD WEIGHT	BBLS BBLS				Ø gsv ☐ Nsv	
S & W VOLUME  NET) STANDARD VOLUME  GROSS STANDARD WEIGHT  S & W WEIGHT	BBLS BBLS LBS				Ø gsv ☐ nsv	
S & W VOLUME  NET) STANDARD VOLUME  GROSS STANDARD WEIGHT  S & W WEIGHT  NET) STANDARD WEIGHT	BBLS BBLS LBS LBS				☑ GSV ☐ NSV	
S & W VOLUME  (NET) STANDARD VOLUME  GROSS STANDARD WEIGHT  S & W WEIGHT  NET) STANDARD WEIGHT	BBLS BBLS LBS LBS			B/L DATE:	Ø GSV ☐ NSV	
GROSS STANDARD VOLUME  S & W VOLUME  (NET) STANDARD VOLUME  GROSS STANDARD WEIGHT  S & W WEIGHT  (NET) STANDARD WEIGHT  STOWAGE O/B VESSEL: 1-3C  REMARKS QUANTITY CONFIRM  with of	BBLS BBLS LBS LBS LBS	QUANTITY C		B/L DATE: YES NO	Ø GSV ☐ NSV	SV @

EPAHO081001511

F-2						Pag	e fot
PORT / TERMINAL: Lake Charle	es, La / Citgo				CHARLES, LA	TEL: (337)	325-1455
VESSEL: CCL 7	VOY#:		INSPECTOR(S): TM				
DATE: 8/3/2008				E: 108			
CARGO: SULFIDIC CAUSTIC		<del>, (                                   </del>	CLIENT	CESE	NVIRONMEN	TAL REF:	
SGS	VI	ESSEL QUA	NTITY	SUMI	MARY OIL	Gas & Chemicals Se	rvices Division.
AT LOADING AT TR	ANSFER AT	DISCHARGE		RUDE OI	L	<b>✓</b> PROD	ucts
API @ 60°F :	F	l.D. 60°F/60°F			Densi	ty Lbs/Gal @	
S&W % VOL:							
SOURCE OF ANALYTICAL DATA	<b>4:</b>						
	VC	LUME	3.	VCF		WEIGHT	
	BBLS	U.S. GALS	(t	)	POUNDS	LONG TONS	METRIC TONS
/ESSEL'S QUANTITIES	V.E.F. CO	RRECTED :	YE	s 🖸	NO	VEF:	
TOTAL CALCULATED VOL	8039.28	337649.76					
FREE WATER	0.00	0.00					
GROSS STANDARD VOLUME	8039.28	337649.76					
S & W VOLUME							
NET) STANDARD VOLUME			_		<u> </u>		
<b>✓</b> OBQ			ROB				
LIQUID MATERIAL	0.00	0.00					
NON-LIQUID MATERIAL	0.00	0.00					
FREE WATER	0.00	0.00					
TOTAL	0.00	0.00					
		1.	I	L			
✓ LOADED QUANTITI	IES		ISCHAR	GED QUA	NTITIES		
						***************************************	<del></del>
TOTAL CALCULATED VOL	8039.28	337649.76					
REE WATER	0.00	0.00			and the second section of the		
GROSS STANDARD VOLUME	8039.28	337649.76			· · · · · · · · · · · · · · · · · · ·		
& W VOLUME					<del></del>		
NET) STANDARD VOLUME						<del>-  </del>	
ARE SLOPS INCLUDED IN CALC	ULATIONS	YES	<b>V</b> N	10	ОМ	SLOPS ON BOARD	
STOWAGE O/B VESSEL: 1-3C							
TITE & STATE					· · · · · · · · · · · · · · · · · · ·		
REMARKS:							

F-10						Page 1 of 2	
PORT / TERMINAL: Lake Charle	es, La / Citgo		OFFICE LAKE	CHARLES, LA	TEL (337) 625-1455	5	
VESSEL CCL 7	VOY#		INSPECTOR(S):	TM	SGS FILE 108156		
CARGO SULFIDIC CAUSTIC			CLIENT CESE	NVIRONMENTAL SERVIC	REF		
SGS	SHOF ✓ AT LOADING	RE TANK MEA	ASUREMENTS TRANSFER	S (STATIC)  AT DISCHARGE	Oil Gas & Chemicals S	Services Division.	
SHORETANK # 182	REF HEIGHT :			✓ FT-IN ☐ FT ☐	MM OTHER:		
OPEN DATE: 8/1/2008	TIME: 19:10 CLOSE DA	TE: 8/2/2008 TI	ME: 15:30		OPEN	CLOSE	
OBS. REF. HEIGHT & INNAGE			#WATER INNAGE	INSPECTOR:	TM	TM	
30-0-1/4 27-6-1/2	NIL 11-10-1/4	9-5-0/0	NIL	WITNESS:			
				API @ 60ºF/ DENS. @ 15º			
				SOURCE	TERMINAL	TERMINAL	
	·			AMBIENT AIR TEMP			
				TEMP OF TANK SHELL	80	79	
				AVG TEMP (0.1ºF)	91.6	90.4	
S MEASUREMENTS TAKEN IN A	CCORDANCE WITH :	INNAGE: API MPN	/IS 3.1A.9.2	AVG INNAGE	27-6-1/2	9-5-0/0	
" FREE WATER DETERMINED I	N ACCORDANCE WITH :	API MPMS 3.1A.10.1		AVG WATER INNAGE	3-5-1/2	3-8-0/0	
# TEMPERATURES TAKEN IN A	CCORDANCE WITH :	API MPMS 7.6.4		VOLUME UNITS BBLS M3 OTHER:			
^ VOLUME CALCULATED IN AC	CORDANCE WITH :	ASTM D 1250-04		TABLE VOLUME **	8840,32	2994.55	
PROD TEMP 91.6	x 0.875 = 80.1500 PROD TEMP	90.4 x 0	.875 = 79.1000	FREE WATER	0.00	0.00	
(+) AIR TEMP	x 0.125 = (+) AIR TEMP	× O	.125 =	OBSERVED VOLUME	8840.32	2994.55	
TANK SHELLTEMPERATURE:	= 80 TANK SHELL TI	EMPERATURE	± 79	TANK SHELL CORR.	1.00025	1.00024	
ROOF CORRECTION INFO - STA	ANDARD API:	***************************************		OBSERVED VOLUME	8842.53	2995.27	
CRITICAL ZONE RANGE FROM	TO ROOF	LEG HIGH	l 🕒 rom	ROOF CORRECTION	0.00	0.00	
***************************************	OPEN	CL	OSE	GROSS OBSERVED VOL.	8842.53	2995.27	
AVG INN IN CRITICAL ZONE	YES V NO	YES	V NO	^VCF TABLE : (t )	1.00000	1.00000	
SIDEGAUGE/ATG	26-11-7/8 / 26-11-11/16	8-9-1/4	/ 8-9-1/8	GROSS STANDARD VOL.	8842.53	2995.27	
TEMPERATURES °F	# PROBE MERCURY	# PROBE	MERCURY	DIFFERENCE	584	17.26	
* ACTION TAKEN :	✓ U 91.6 ✓ M 91.6 ✓ L 91.6	5 🗹 U 90.4 🗌 N	ı () <b>L</b>	CUSTODY TRANSFER SAN	IPLE:		
	M .	M		API @ 60°F/ DE			
	OTHER*	OTHER'		S&W% VOL.			
SIDETEMP/REMOTE	-	9	2.4	S & W VOLUME	**************************************		
PROBE WAS CHECKED PRIOR	TO USE Y YES NO	NOT USED		NET STANDARD VOLUME			
SAMPLING	OU M OL		л OL	WCF TABLE : (t )			
* ACTION TAKEN :	От Ов ₩ в 20	T T DE	3	GROSS STANDARD WT.			
	OTHER*	OTHER*		NET STANDARD WEIGHT			

OTHER*

OP TEMP:

CAL DATE: 10/6/2000

AT ULLAGES :

М³ Services rendered according to published General Terms and Conditions

LBS

OTHER:

OTHER:

**WEIGHT UNITS** 

LT

" IS TABLE VOLUME IN BBLS

MT

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OTHER*

Ref TSh Temp: 60

F-10	Page	ř	of	2.
		<del></del>		

PORT / TERMINAL: Lake Charles, La	/ Cîtgo	OFFICE LAKE CHARLES, LA	TEL (337) 625-1455
VESSEL CCL 7	VOY#	INSPECTOR(S): TM	SGS FILE 108156
CARGO SULFIDIC CAUSTIC		CLIENT CES ENVIRONMENTAL SERVIC	REF

01	<b>2</b> C	SHORE TANK MEASUREMENTS	(STATIC
_			promote .

<b>909</b>		Y	AT LOADING		AT TRANSFER	AT DISCHARGE	Oil Gas & Chemicals	Services Division.
SHORETANK # 1	82	REF HE	GHT:		GAUGE UNITS	🗹 FT-IN 🗆 FT 🗆	MM OTHER:	
	: 8/3/2008	TIME: 0:40		E: 8/3/2008	TIME: 14:50		OPEN	CLOSE
DBS. REF. HEIGHT §	INNAGE	□ WATER INNAGE	OBS. REF. HEIGHT	§ INNAGE	#WATER INNAGE	INSPECTOR:	TM	TM
20-4-1/2	17-10-7/8	NIL	14-10-3/8	12-4-3/4	NIL	WITNESS:		
						API @ 60ºF/ DENS. @ 15º		
	······································					SOURCE	TERMINAL	TERMINAL
						AMBIENT AIR TEMP		
						TEMP OF TANK SHELL	79	79
	**************************************					AVG TEMP (0.1ºF)	90.4	90.2
MEASUREMENTS	TAKEN IN AC	CORDANCE WITH	:	INNAGE: API	MPMS 3.1A.9.2	AVG INNAGE	17-10-7/8	12-4-3/4
FREE WATER DE	TERMINED IN	ACCORDANCE WITH	*	API MPMS 3.1	A.10.1	AVG WATER INNAGE	NIL.	NIL
TEMPERATURES	TAKEN IN AC	CORDANCE WITH	7	API MPMS 7.6	5.4	VOLUME UNITS Y BB	LS Nº OTHER	₹ :
VOLUME CALCU	LATED IN ACC	ORDANCE WITH	•	ASTM D 1250	-04	TABLE VOLUME "	5732.42	3955.29
PROD TEMP	90.4 x	<b>0.875</b> = 79.1000	PROD TEMP	90.2	x 0.875 = 78.9250	FREE WATER	0.00	0.00
(+) AIR TEMP	×	0.125 =	(+) AIR TEMP		x 0.125 =	OBSERVED VOLUME	5732.42	3955.29
TANK SHELLTEMP	ERATURE:	= 79	TANK SHELL TE	MPERATURE	= 79	TANK SHELL CORR.	1.00024	1.00024
ROOF CORRECTIO	N INFO - STAN	IDARD API:		······································		OBSERVED VOLUME	5733.80	3956.24
CRITICAL ZONE RA	ANGE FROM	то	ROOF	EG   H	IIGH LOW	ROOF CORRECTION	0.00	0.00
<del>viadamalia mara ayan e yeneessa sa </del>	······································	OF	EN		CLOSE	GROSS OBSERVED VOL.	5733.80	3956.24
AVG INN IN CRITIC	AL ZONE	YES	✓ NO	YES	✓ NO	^VCF TABLE : (t )	1.00000	1.00000
SIDEGAUGE/ATG	**************************************	18-0-1/4	/ 18-0-1/8	11-9	-1/4 / 11-8-7/8	GROSS STANDARD VOL.	5733.80	3956.24
TEMPERATURES 9	F	# PROBE	MERCURY	# Y PRO	BE MERCURY	DIFFERENCE	17	77.56
* ACTION TAKEN :		✓ U 90.4 ✓ M	90.4 🗸 L 90.4	<b>✓</b> U 90.2	M DL	CUSTODY TRANSFER SAM	IPLE:	
The state of the s	· · · · · · · · · · · · · · · · · · ·	I M		□ M		API @ 60°F/ DE		
- tum	······································	OTHER*	***************************************	OTHER*		S & W % VOL.		****
SIDETEMP/REMOT	TE.	92	≥.4	<u> </u>	92	S & W VOLUME		
PROBE WAS CHE	CKED PRIOR T	O USE YES	NO O	NOT USED		NET STANDARD VOLUME		
SAMPLING	······································	lou on	ı D	U	OM DE	WCF TABLE : (t )		
* ACTION TAKEN	**************************************	To The Contract of the Contrac	. □ R	T (	В Пя	GROSS STANDARD WT.		***************************************
	<del></del>	OTHER*		OTHER*		NET STANDARD WEIGHT		
AT ULLAGES:	**************************************			<u> </u>		WEIGHT UNITS LT	MT LBS	OTHER:
CAL DATE: 10/6	8/2000	Ref TSh Temp :	60	OP TEMP :	***************************************	** IS TABLE VOLUME IN	BBLS M3	OTHER:
Copyright SGS-OG&C							red according to published	General Terms and Cond
	3/4/68						The state of the s	

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F-15							. And . Company				Pe	ege 1 of	4
PORT/	TERMINAL:	Lake Charles,	La	/ Cito	jo		OFFICE: LA	KE CHARLES,	LA	TEL: (337)	625-1455		
VESSE	L: CCL 7			VOY	#:		INSPECTOR(S	): TM		SGS FILE:	108156		
DATE:	8/3/2	008 <b>CARGO</b> :	SULFIDIC C	AUSTIC			CLIENT: CES	S ENVIRONME	ENTAL SER	VIC REF:			
CI	,C		•	VES	SEL MEASUF	REMENT	SYSTEM	<b>✓</b> OPEN	CLOSE / F	RESTRICTED			
<u> </u>	19				ARRIVAL	<b>7</b> C	EPARTURE			Oil Gas &	Chemicals Se	ervices Division.	
	Y AT L	OADING	AT TRANS	HIPMENT	AT DISCHAR	GE	✓ CAR	GO TANKS	BALL	AST TANKS	ON C	N/OTHER CARG	O
UNITS	. 🗸	FT-IN	FT		MM 🔲	OTHER:			BBLS	U.S. GALS	M3	OTHER:	
TANK #	REFERENCE HEIGHT	OBSERVED REFERENCE HEIGHT	¤ INNAGE	WATER INN	TEMPERATURES °F § PROBE	AVG. TEMP	CORRECTED MEASURE	TOTAL OBSERVED VOLUME	FREE WATER	GROSS OBSERVED VOLUME	^ V.C.F.	GROSS STANDARD VOLUME	1 *
1C	15-7-0/0	15-8-1/4	11-2-1/4	NIL	91.8	91.8	11-2-1/4	2875.14	0.00	2875.14			T
2C	15-7-0/0	15-8-1/4	9-8-0/0	NIL	91.5	91.5	9-8-0/0	2531.33	0.00	2531.33			
3C	15~7-0/0	15-8-1/4	10-0-3/4	NIL	92.1	92.1	10-0-3/4	2632.81	0.00	2632.81			
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			<u> </u>						ļ				-
DOODE	MAC CHECKE	D PRIOR TO US	E V YE	S N	NOT HE	<u> </u>	TOTALS	8039.28	0.00	8039.28			-
		······································				ED	-		1			<u> </u>	
GAUGI	ELOCATION	: STANI		G.M. OR	Expansion Trunk	······································	·	ENSITY @ 15C	. w = wedg	corrected, t = T	rim corrected URCE :	**************************************	
* GAII	GE POSITIO			rward of Ce	nter A = Aft of Cente	er	S&W-VOL				URCE :		······································
		: 2X1QT PE					S & W - VOL		······································	WCF TAE		<u> </u>	***************************************
Drum 1		· ·····································	CI STATE	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		······································	NET STANDA	_		*****			
BALLA	ST TANKS F	PERMANENT	Y YES I	F NO	SEE F-15 BALLAST	TANKS)		IDARD WEIGH	<u> </u>				***********
SEASI	JCTION SEA	L #'S :	······································			······································	NET STANDA	RD WEIGHT			***************************************		************
DRAFT		P) 9-6	AFT (P	9-6	LIST :	^º (P) / (S	<del></del>	. VOL. DEPART	URE		······································	phily-designed are a series of the designed of the series	
		S) 9-6		9-6			REMARKS:		· · · · · · · · · · · · · · · · · · ·	<u> </u>	······································		
SE	A CONDITIO	N: CALM IN I	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	***************************************		***************************************	^ VOLUME CAL	CULATED IN ACC	ORDANCE WIT	TH		······································	
				TIM MC DC	MALD	······································	¤ LIQUID LEVEL	GAUGES IN ACC	ORDANCE WI	rh T	ADI MOME 4	7259	

INSPECTOR

STEMPERATURE DETERMINATION IN ACCORDANCE WITH

API MPMS 17.2.5.3

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VESSEL'S STAFF

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F-10							······································			·····	······································	······································	·
PORT/	TERMINAL: L	ake Charles, I	La		/ Citgo			OFFICE: LA	KE CHARLES, L	A	TEL: (33	37) 625-1455	
VESSEL	::CCL 7				VOY #:			INSPECTOR(	3): TM		SGS FILE	: 108156	
DATE:	8/3/20	08 <b>CARGO</b> : 3	SUL	FIDIC CAUS				CLIENT: CE	S ENVIRONMEN	ITAL SER	VIC REF:		
SC	iS					OBQ DO NOT USE V.			SUREMENT IS NOT TAKEN		Oil Gas &	Chemicals Servic	es Division.
UNITS :	<b>Y</b> F	T-IN		FT	MM		THER:		UNITS: V B	BLS	U.S. GALS	M ³ 0	THER:
TANK #	REFERENCE HEIGHT	OBSERVED REFERENC E HEIGHT	*	OBSERVED INNAGE	FREE WATER INNAGE	NON-LIQUID INNAGE	AVG. TEMP	CORRECTED MEASURE	TOTAL OBSERVED VOLUME	^ V.C.F.	FREE WATER VOLUME	NON-LIQUID VOLUME	LIQUID VOLUME
1C	15-7-0/0	15-8-1/4		0-0-0/0	NIL	NIL	60	0-0-0/0	0.00		0.00	0.00	0.00
2C	15-7-0/0	15-8-1/4		0-0-0/0	NIL	NIL	60	0-0-0/0	0.00		0.00	0.00	0.00
3C	15-7-0/0	15-8-1/4		0-0-0/0	NIL	NIL	60	0-0-0/0	0.00		0.00	0.00	0.00
			├-							-			
			}				<del>                                     </del>	<del> </del>		<del> </del>			
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		<del> </del>	╁╴				<del>                                     </del>			<u> </u>	<u> </u>		
^ VC	LUME CALCUI	ATED IN ACCO	ROA	VCE WITH	ASTM D 12	250-04		TOTALS	0.00		0.00	0.00	0.00
On b	ehalf of our clie	ent(s) we would i	ike t	bring to your a	ttention that in	our opinion :	······································	d = dip, u =	Ullage; corrected	ப measure,	w = Wedge co	orrected, t = Trim (	corrected
		Bbls of L	ΙQΙ	IID MATERI	AL			GAUGE LOC	CATION: ST.	ANDPIPE	<b>☑</b> G.H	. on Expansion tru	ınk
		Bbls of N	ON	-LIQUID MA	TERIAL				OTHER				***************************************
rema	ains on board y	our vessel. To th	ne ex	tent we are awar	e of contractua	I		* GAUGE P	OSITION: C = Cen			f Center A = Aft of	Center
		naterial belongs ble to do so plea				ed ashore.		OBQ SAM	PLED	YES 🗸	NO IF NO	REASON	
In ar	ny event, we hav	ve to advise our o	ctien	t(s) of the above		right to seek						······································	
State	ements with req	ne undelivered as gards to flowabili	ty aı		ory services exp	ress personal		OBQ TES	TED	YES 🗸	NO IF NO	REASON	
opin	ions without re	sponsibility for S	GS.			·		ROB SAM	PIFD	YES 🗸	NO IF NO	REASON	
		······································				······································	***************************************	1100 0411	1 Section for Contract		. 110 11 110	1273011	
		~						DRAFT:	FWD (P) 1-6		AFT (P) 2-0	LIST	: º(P)/(S

(S) 1-6

SEA CONDITION: CALM IN PORT

TIM MC DONALD

INSPECTOR

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VESSEL'S STAFF

EPAHO081001516

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**(S)** 2-0



# Inspection Report (LOADING)

Subject: CCL 7

Date:

11/6/2008

Our ref.: 119101

Product: SPENT CAUSTIC

Location: LAKE CHARLES / CITGO

Client ref.: TBD

Client: CES ENVIRONMENTAL SERVICES

Summary of Figures	8	Bbis @ 60°F	Gallons @ 60°F	Long Tons	Metric Tonnes	Pounds
Shore Measurements Total Shore figures delivered Average API Gravity @ 60°F	ı GSV	7,995.70	335,819.40			
Shoretanks no(s):	TANK 182					
Vessel's Measurement	s					
Vessel's figures before loading	(OBQ) Free Water	0.00				
Vessel's figures before loading	(OBQ) Liquid	29.24				
Vessel's figures before loading	(OBQ) Non Liquid	0.00				
Vessel's figures before loading	(OBQ) Total	29.24	1,228.08			
Vessel's figures TCV on board	after loading	8,122.02	341,124.84			
Vessel's figures TCV loaded	-	8,092.78	339,896,76			
Vessel's figures Free Water loa	aded	0.00	0.00			
Vessel's figures GSV loaded		8,092.78	339,896.76			

Cargo stowage Cargo tanks no(s):

CCL 7[1C, 2C, 3C]

## Samples

SHORE TANK - 2X1 QUART RUNNING

BARGES - 2X1 QUART RUNNING PER CARGO TANK

# **Time Log**

11/4/2008	1240	INSPECTOR NOTIFIED
	1305	BARGE ARRIVED
	1315	BARGE DOCKED AT C-SLIP
	1325	INSPECTOR ARRIVED
	1405	STK 182 GAUGED, SAMPLED, TEMPED OPEN
	1415	COMMENCED OBQ INSPECTION
	1430	COMPLETED OBQ INSPECTION
	1450	INSPECTOR DEPARTED
	1550	CHICKSANS CONNECTED
	1620	COMMENCED LOADING
11/5/2008	0645	GAUGED ST 182 CLOSED
	0715	COMMENCED GRAVITATING FROM ST 187 TO 182
	1430	COMPLETED GRAVITATING FROM ST 187 TO 182
	2130	RESUMED LOADING
11/6/2008	0430	SUSPENDED DISCHARGE
	0615	GAUGED ST 182 CLOSED
	0645	COMMENCED GRAVITATING FROM ST 187 TO ST 182

SGS North America Inc.

Oil, Gas & Chemicals Services 4701 E. NAPOLEON SULPHUR, LA 70663 t((337) 625-1455) t((337) 625-1721) www.sgs.com

Member of the SGS Group (Société Générale de Surveillance)



0915	COMPLETED GRAVITATING FROM ST 187 TO 182
0920	OPENED ST 182
1115	COMPLETED LOADING
1130	COMMENCED POST LOAD DECK INSPECTION
1140	COMPLETED POST LOAD DECK INSPECTION
1200	CLOSED ST 182
1230	COMMENCED FINAL CALCULATIONS
1300	COMPLETED CALCULATIONS

Additional events, Stoppages and Delays

0715	COMMENCED GRAVITATING FROM ST 187 TO 182
1430	COMPLETED GRAVITATING FROM ST 187 TO 182
2130	RESUMED LOADING
0430	SUSPENDED DISCHARGE
	1430 2130

BRETT DAIGLE for SGS Oil, Gas & Chemicals Services 11/6/2008

Shore volume calculated in accordance with: Vessel volume calculated in accordance with: ASTM D 1250-04 ASTM D 1250-04

Procedures as per applicable MPMS Chapter 3.1a, 7, 8.1 or 8.2, 12.1 or 12.2, 17.1, 17.2, 17.4.

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FIRCC REV. January 2007

F-3A			Leader Addition 1985
PORT / TERMINAL: LAKE	CHARLE / CITGO	OFFICE: LAKE CHARLES, LA	TEL: (337) 625-1455
VESSEL: CCL 7	VOY #:	INSPECTOR(S): BELLON	
DATE: 11/4/2008		SGS FILE: 119101	
CARGO: SPENT CAUST	TIC TIC	CLIENT: CES Environmental	REF: TBD

SGS

Prepared by :

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# **VOYAGE ANALYSIS REPORT**

✓ LOADING	V-V T	RANSFER	DISCHARGE	SUMMARY		Type of Voyage	C/P DATE
					<u></u>	Simple	
Load Port/Terminal/Berth		ARRIVED	SAILED	Discharge Port/1	rerminal/Berth	ARRIVED	SAILED
LAKE CHARLES / CITGO	/CS	11/4/2008	11/6/2008	<u> </u>			
VOLUME UNITS	,,	SUPPLIER	RECEIVER	VCF SHORE LOAD	VCF SHORE DISCH	VCF VESSEL LOAD	VCF VESSEL DIS
Z BBLS ☐ GALS ☐ M ³		CITGO	CES				
DESCRIPTION API		TCV	FW	GSV	S&W	NSV	Reference
I. COMPARISON OF SHOR	E QUAN			T			(1)
ill of Lading 1.		7995.70	0.00	7995.70	<u> </u>		(2)
Outturn 2.	0000000000		<b>_</b>	<u> </u>			(3)=(2) - (1)
olff. 3.							
)iff. % 4.							(4) = (3) / (1) x 100
lecalc. B/L 5.	(a)		<u> </u>	B/L and O/T use o	lifferent tables.		(5) (a) Vol. Diff.
I. VESSEL/SHORE QUANT	· · · · · · · · · · · · · · · · · · ·		PORT(S)	0400.00	Lioun	LNONLLIQUID	(A)
essel Sailing	A.	8122.02	0.00	8122.02	LIQUID		B)
OBQ (AII)	В.	29.24	0.00	29.24			(C)=(A) - (B)
Loaded	C.	8092.78	0.00	8092.78			
Difference	D.	97.08	0.00				(D)=(C)-[(1) or (5)]
Difference %	E.	1.21%					(E)=(D)/[(1)or(5)]x10
oad Vessel Ratio	F.	1.0121					(F)=(C)/[(1)or(5)]
oad VEF	G.						(G)
neoretical Shore	Н.						(H)=(C) / (G)
neoretical Shore Diff.	I.	-7995.70					(i)=(H) - [(1) or (5)]
heoretical Shore Diff. %	J.	-100.00%					(J)=(I)/[(1) or (5)]x10
I. VESSEL/SHORE QUANT		T ( ) DISCH	ARGE PORT(S)				
essel Arrival	K.				LIQUID		(K)
ROB (Ali)	L.						L)
Discharged	M.						(M) = (K) - (L)
Difference	N.						(N) = (2) - (M)
Difference %	0.						(O) = (N) / (2) x 100
scharge Vessel Ratio	P.						P) = (M)/(2)
scharge VEF	Q.					ľ	(Q)
neoretical Shore	R.						R) = (M) / (Q)
neoretical Shore Diff.	S.						S) = (2) - (R)
neoretical Shore Diff. %	T.					To the second se	T) = $(S) / (2) \times 100$
. VESSEL/'S COMPARISO	N OF LC	ADING AND DIS	CHARGE PORT(S	) VCF TABLE M	UST BE CONSIST	ENT	
ansit Difference	U.					(	U) = (K) - (A)
Difference %	V.				LIQUID	NON-LIQUID	V) = (U) / (A) x 100
BQ/ROB Difference	W.						W) = (L) - (8)
DJ TCV DIFF :	T (Quant		OBQ (B) + ROB (L)	(S S&W at Load Port	&W(1)/GSV(1)]X100 t:	5&W at Disch Por	&W(2)/GSV(2)]X10
						····	

**INSPECTOR** 

Company:

SGS

Date Completed :

F-1					Page Life of
PORT/TERMINAL: LAKE CHARL	E / CITO	SO	OFFICE LA	KE CHARLES, LA	TEL (337) 625-1455
VESSEL CCL 7	VOY#		INSPECTOR(S	): BELLON	
DATE 11/4/2008			SGS FILE 1	19101	
CARGO SPENT CAUSTIC			CLIENT CE	S Environmental	REF TBD
SGS		SHORE QUA	NTITY SUMI		Gas & Chemicals Services Division.
AT LOADING AT TRANS	SFER 🗍	AT DISCHARGE	✓ SHORE	TANK (STATIC)	METER (DYNAMIC)
CUSTODY TRANSFER SAMPLE					
API @ 60°F:		R.D, 60ºF/60ºF		Densi	ity Lbs/Gal @
S&W % VOL:					
SOURCE OF ANALYTICAL DATA:					
	UNITS	TANK 182	TANK 182	TANK 182	
TOTAL CALCULATED VOLUME	BBLS	5378.83	2102.90	513.97	
FREE WATER	BBLS	0.00	0.00	0.00	
GROSS STANDARD VOLUME	BBLS	5378.83	2102.90	513.97	
S & W VOLUME	BBLS				
(NET) STANDARD VOLUME	BBLS				
WCF TABLE (t )					
GROSS STANDARD WEIGHT					
S & W WEIGHT					
(NET) STANDARD WEIGHT					
	<u> </u>				
	UNITS			SHORELINE	TOTAL DELIVERED
TOTAL CALCULATED VOLUME	BBLS				7995.70
FREE WATER	BBLS				0.00
GROSS STANDARD VOLUME	BBLS		***************************************		7995.70
S & W VOLUME	BBLS				
NET) STANDARD VOLUME	BBLS				
					✓ GSV NSV SV @
GROSS STANDARD WEIGHT					and the second s
S & W WEIGHT					
(NET) STANDARD WEIGHT					
STOWAGE O/B VESSEL: 1-3C					

(NET) STAN	DARD WEIGHT								
STOWAGE	D/B VESSEL: 1-3C								dia di
				***************************************	1	B/L DA	re:		
REMARKS	QUANTITY CONFIRME	D	QUANTITY	CHANGES		YES	NO	IF YES STATE REASON	
with	of				****	·			(1)
with	of								<u> </u>
Date	Time			·					<u> </u>
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									OA

VESSEL'S QUANTITIES	-2 .						Pag	it of .
DATE: 11/42008				·ļ		<del></del>	TEL: (337)	625-1455
CARGO: SPENT CAUSTIC   CLIENT: CES Environmental   REF: TBD		VOY #:		- <del></del>		·····		Handari Anna da
VESSEL QUANTITY SUMMARY					·····		REF. TRD	
AT LOADING AT TRANSFER AT DISCHARGE CRUDE OIL PRODUCTS  AT LOADING AT TRANSFER AT DISCHARGE CRUDE OIL PRODUCTS  AT LOADING AT TRANSFER AT DISCHARGE CRUDE OIL PRODUCTS  AT LOADING AT TRANSFER AT DISCHARGE CRUDE OIL PRODUCTS  AT LOADING AT TRANSFER AT DISCHARGE CRUDE OIL PRODUCTS  AT LOADING AT TRANSFER AT DISCHARGE CRUDE OIL PRODUCTS  AT LOADING AT TRANSFER AT DISCHARGE CRUDE OIL PRODUCTS  AT LOADING AT TRANSFER AT DISCHARGE CRUDE OIL PRODUCTS  AT LOADING AT TRANSFER AT DISCHARGE CRUDE OIL PRODUCTS  AT LOADING AT TRANSFER AT DISCHARGE CRUDE OIL PRODUCTS  AT AT LOADING AT TRANSFER AT DISCHARGE CRUDE OIL PRODUCTS  AT AT LOADING AT TRANSFER AT DISCHARGE CRUDE OIL PRODUCTS  AT AT LOADING AT TRANSFER AT DISCHARGE CRUDE OIL PRODUCTS  AT AT LOADING AT TRANSFER AT DISCHARGE CRUDE OIL PRODUCTS  AT AT LOADING AT TRANSFER AT DISCHARGE CRUDE OIL PRODUCTS  AT AT LOADING AT TRANSFER AT DISCHARGE CRUDE OIL PRODUCTS  AT AT LOADING AT TRANSFER AT DISCHARGE CRUDE OIL PRODUCTS  AT AT LOADING AT TRANSFER AT DISCHARGE CRUDE OIL PRODUCTS  AT AT LOADING AT TRANSFER AT LOADING AT TRANSFER AT TR	CCC		TOOTI OUA	·40c+****	W			· · · · · · · · · · · · · · · · · · ·
API @ 60°F : R.D. 60°F/60°F	<u> </u>	V	ESSEL QUA	\N	Y SUM	MARY OIL	as & Chemicals Se	rvices Division.
SAW % VOL:  SOURCE OF ANALYTICAL DATA:    VOLUME	AT LOADING AT TE	RANSFER	DISCHARGE		CRUDE O	)IL	<b>✓</b> PROD	UCTS
VOLUME	API @ 60°F :	a R	.D. 60°F/60°F		· · · · · · · · · · · · · · · · · · ·	Densi	ty Lbs/Gal @	
VOLUME	&W % VOL:							
BBLS U.S. GALS (**)  POUNDS LONG TONS METRIC TON (AIR)  VESSEL'S QUANTITIES  V.E.F. CORRECTED: YES ✓ NO VEF:  TOTAL CALCULATED VOL 8122.02 341124.84  FREE WATER  0.00 0.00  GROSS STANDARD VOLUME  8122.02 341124.84  S & W VOLUME  (NET) STANDARD VOLUME  POUNDS LONG TONS METRIC TON (AIR)  VESSEL'S QUANTITIES  NO VEF:	OURCE OF ANALYTICAL DAT	A:						
BBLS U.S. GALS (**)  POUNDS LONG TONS METRIC TON (AIR)  VESSEL'S QUANTITIES  V.E.F. CORRECTED: YES ✓ NO VEF:  TOTAL CALCULATED VOL 8122.02 341124.84  FREE WATER  0.00 0.00  GROSS STANDARD VOLUME  8122.02 341124.84  S & W VOLUME  (NET) STANDARD VOLUME  OBQ ROB  ROB  LIQUID MATERIAL  0.00 0.00  FREE WATER  0.00 0.00  0.00  FREE WATER  0.00 0.00  0.00  FREE WATER  0.00 0.00  FREE WATER  0.00 0.00  FREE WATER  0.00 0.00  FREE WATER  0.00 0.00  0.00  FREE WATER  0.00 0.00  FREE WATER  0.00 0.00  FREE WATER  0.00 0.00  SROSS STANDARD VOLUME  8092.78 339896.76  FREE WATER  0.00 0.00  SROSS STANDARD VOLUME  8092.78 339896.76	William War a company of the state of the st	l vo	LUME		14/05	<b>T</b>	WEIGHT	
VESSEL'S QUANTITIES         V.E.F. CORRECTED:         YES         NO         VEF:           TOTAL CALCULATED VOL         8122.02         341124.84		<u></u>				POUNDS		METRIC TONS
TOTAL CALCULATED VOL 8122.02 341124.84  FREE WATER 0.00 0.00  GROSS STANDARD VOLUME 8122.02 341124.84  S & W VOLUME (NET) STANDARD VOLUME  LIQUID MATERIAL 29.24 1228.08  NON-LIQUID MATERIAL 0.00 0.00  FREE WATER 0.00 0.00  TOTAL 29.24 1228.08  TOTAL 29.24 1228.08  DISCHARGED QUANTITIES  FOTAL CALCULATED VOL 8092.78 339896.76  GROSS STANDARD VOLUME 8092.78 339896.76	ESSEL'S QUANTITIES	VEECO	POECTED :		re V	<u>l</u>	Ver.	(AIR)
FREE WATER 0.00 0.00 0.00 GROSS STANDARD VOLUME 8122.02 341124.84 S & W VOLUME (NET) STANDARD VOLUME ROB ROB  LIQUID MATERIAL 29.24 1228.08 NON-LIQUID MATERIAL 0.00 0.00 0.00 FREE WATER 0.00 0.00 DISCHARGED QUANTITIES  LOADED QUANTITIES DISCHARGED QUANTITIES  FOTAL CALCULATED VOL 8092.78 339896.76 GROSS STANDARD VOLUME 8092.78 339896.76					EJ Y	1	VEF.	
GROSS STANDARD VOLUME 8122.02 341124.84 S & W VOLUME (NET) STANDARD VOLUME								
S & W VOLUME  (NET) STANDARD VOLUME    OBQ  ROB  LIQUID MATERIAL  29.24  1228.08  NON-LIQUID MATERIAL  0.00  0.00  FREE WATER  0.00  0.00  TOTAL  29.24  1228.08  DISCHARGED QUANTITIES  FOTAL CALCULATED VOL  8092.78  339896.76  GROSS STANDARD VOLUME  8092.78  339896.76			<u> </u>					<u> </u>
NON-LIQUID MATERIAL   29.24   1228.08		0122.02	341124.04					
✓ OBQ         ROB           LIQUID MATERIAL         29.24         1228.08           NON-LIQUID MATERIAL         0.00         0.00           FREE WATER         0.00         0.00           TOTAL         29.24         1228.08           TOTAL         29.24         1228.08           TOTAL CALCULATED VOL         8092.78         339896.76           FREE WATER         0.00         0.00           GROSS STANDARD VOLUME         8092.78         339896.76								M. M
LIQUID MATERIAL 29.24 1228.08			<u>L</u>		····			
NON-LIQUID MATERIAL 0.00 0.00 0.00  FREE WATER 0.00 0.00 0.00  TOTAL 29.24 1228.08  DISCHARGED QUANTITIES  TOTAL CALCULATED VOL 8092.78 339896.76  FREE WATER 0.00 0.00  GROSS STANDARD VOLUME 8092.78 339896.76	<b>⊘</b> OBQ			ROB				
NON-LIQUID MATERIAL 0.00 0.00  FREE WATER 0.00 0.00  TOTAL 29.24 1228.08   DISCHARGED QUANTITIES  TOTAL CALCULATED VOL 8092.78 339896.76  □ REE WATER 0.00 0.00 □ GROSS STANDARD VOLUME 8092.78 339896.76								
FREE WATER 0.00 0.00  FOTAL 29.24 1228.08  DISCHARGED QUANTITIES  FOTAL CALCULATED VOL 8092.78 339896.76  FREE WATER 0.00 0.00  GROSS STANDARD VOLUME 8092.78 339896.76	IQUID MATERIAL	29.24	1228.08					
TOTAL 29.24 1228.08  ■ LOADED QUANTITIES ■ DISCHARGED QUANTITIES  ■ TOTAL CALCULATED VOL 8092.78 339896.76 ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■	ON-LIQUID MATERIAL	0.00	0.00					
✓ LOADED QUANTITIES         DISCHARGED QUANTITIES           FOTAL CALCULATED VOL         8092.78         339896.76           FREE WATER         0.00         0.00           GROSS STANDARD VOLUME         8092.78         339896.76	REE WATER	0.00	0.00					
TOTAL CALCULATED VOL 8092.78 339896.76	OTAL	29.24	1228.08					
FOTAL CALCULATED VOL 8092.78 339896.76		<u> </u>				·		<u> </u>
FOTAL CALCULATED VOL 8092.78 339896.76								
FREE WATER 0.00 0.00  GROSS STANDARD VOLUME 8092.78 339896.76	LOADED QUANTIT	TES		DISCHA	RGED QUA	ANTITIES		
FREE WATER 0.00 0.00  GROSS STANDARD VOLUME 8092.78 339896.76								
GROSS STANDARD VOLUME 8092.78 339896.76	OTAL CALCULATED VOL	8092.78	339896.76					
	REE WATER	0.00	0.00	Ī				
S & W VOLUME	ROSS STANDARD VOLUME	8092.78	339896.76					
1 1 1	& W VOLUME							
NET) STANDARD VOLUME	IET) STANDARD VOLUME			-				
ARE SLOPS INCLUDED IN CALCULATIONS YES Y NO NO SLOPS ON BOARD	RE SLOPS INCLUDED IN CALC	CULATIONS	YES		NO	NO.	SLOPS ON ROARD	
STOWAGE O/B VESSEL: 1-3C				.5.1		110	CLO. C ON BOARD	
								······································
REMARKS:	EMARKS:		<del></del>		,			
	to the second se						·	

PORT / TERMINAL: LAKE CHARLE / CITGO	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 7 VOY #:	INSPECTOR(S): BELLON
DATE: 11/4/2008	SGS FILE: 119101
CARGO: SPENT CAUSTIC	CLIENT: CES Environmental REF: TBD

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# **TIME LOG**

Oil Gas & Chemicals Services Division.

11 of 11

C.	AT LOA	DING	¥	AT TRAN	NSFER			T AT DISCHARGE						
***************************************	Υ	'EAR 2008 / MONTH	JAN FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	
Date	Hour													
11/4	12:40	INSPECTOR NOTIFIE	D				*****							
11/4	13:05	BARGE ARRIVED			***************************************									
11/4	13:15	BARGE DOCKED AT	C-SLIP		···	····	- <u></u>					<u> </u>		
11/4	13:25	INSPECTOR ARRIVE	D		<del></del>		***************************************				·····			
11/4	14:05	STK 182 GAUGED, S.	AMPLED, TEM	IPED OF	EN					***************************************	·			
11/4	14:15	COMMENCED OBQ II	NSPECTION		*******					<u> </u>				
11/4	14:30	COMPLETED OBQ IN	SPECTION			***********			***************************************					
11/4	14:50	INSPECTOR DEPART	ED		***************************************		***************************************	***************************************			<u> </u>		*****	
11/4	15:50	CHICKSANS CONNE	CTED			<del></del>		<del>//</del>					***********	
11/4	16:20	COMMENCED LOAD!	NG	***************************************			······································							
11/5	06:45	GAUGED ST 182 CLC	SED	***	***************************************		******************************	***************************************	<del></del>					
11/5	07:15	COMMENCED GRAVI	TATING FROM	A ST 187	7 TO 18	2	<del></del>					*******		
11/5	14:30	COMPLETED GRAVIT	ATING FROM	ST 187	TO 182	<u> </u>	***************************************		***					
11/5	21:30	RESUMED LOADING				<del></del>		***************************************		***************************************				
11/6	04:30	SUSPENDED DISCHA	RGE	******					****		·····			
11/6	06:15	GAUGED ST 182 CLC	SED		**			***************************************	··············	····				
1/6	06:45	COMMENCED GRAVI	TATING FROM	/I ST 187	7 TO S1	182				<del></del>				
1/6	09:15	COMPLETED GRAVIT	ATING FROM	ST 187	TO 182	<u> </u>			<del>/=\</del>					
11/6	09:20	OPENED ST 182		************									·	
11/6	11:15	COMPLETED LOADIN	IG		***************************************					**************		······································		
1/6	11:30	COMMENCED POST I	OAD DECK IN	VSPECT	ION					············				
1/6	11:40	COMPLETED POST L	OAD DECK IN	SPECTION	ON	····			······································	*****	·			
1/6	12:00	CLOSED ST 182			······································		******							
11/6	12:30	COMMENCED FINAL	CALCULATIO	VS		***************************************		<del></del>						
11/6	13:00	COMPLETED CALGUI	ATIONS											
								~~~~~						
	EL AVE AND	STOPPAGES:												
1/5	07:15	COMMENCED GRAVI	TATING FROM	1 ST 187	TO 18:	2		-	*******	~~				
1/5	14:30	COMPLETED GRAVIT	ATING FROM	ST 187	TO 182									
1/5	21:30	RESUMED LOADING	***************************************						***************************************			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
1/6	04:30	SUSPENDED DISCHA	RGE											
					·····								6	
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F-10			Page TAE of 3 t
PORT / TERMINAL: LAKE CHARLES	/ CITGO	OFFICE LAKE CHARLES, LA	TEL (337) 625-1455
VESSEL CCL 7	VOY#	INSPECTOR(S): BELLON	SGS FILE 119101
CARGO SPENT CAUSTIC		CLIENT CES Environmental	REF TBD

CCC	***************************************		SHOR	E TANK ME	EASUREMENT					
OUO		Ý	AT LOADING	- Committee	AT TRANSFER	AT DISCHARGE	Oil Gas & Chemicals S	Services Division.		
SHORETANK #	182	REF HE	IGHT: FLOATIN	G ROOF	GAUGE UNITS	V FT-IN T FT T	MM OTHER:			
	E:11/4/2008	TIME: 14:05		TE: 11/5/2008	TIME: 6:45		OPEN	CLOSE		
OBS. REF. HEIGHT	§ INNAGE	= WATER INNAGE	OBS. REF. HEIGHT	§ INNAGE	×WATER INNAGE	INSPECTOR:	STEVE BELLON	JOE BUSBY		
	27-4-3/4	0-0-0	13-2-1/2	10-8-10	0-0-0	WITNESS:				
						API @ 60°F				
						SOURCE				
						AMBIENT AIR TEMP	75.0	70.0		
	***************************************					TEMP OF TANK SHELL	74	69		
						AVG TEMP (0.19F)	74.0	69.0		
§ MEASUREMENT	S TAKEN IN AC	CORDANCE WITH	:	INNAGE: API M	PMS 3.1A.9.2	AVG INNAGE	27-4-3/4	10-8-10		
FREE WATER D	ETERMINED IN	ACCORDANCE WITH	:	API MPMS 3.1A	1.10.1	AVG WATER INNAGE	0-0-0	0-0-0		
# TEMPERATURE	S TAKEN IN AC	CORDANCE WITH	4	API MPMS 7.6.4	4	VOLUME UNITS 🗸 BBI	LS M3 OTHER	:		
^ VOLUME CALC	JLATED IN ACC	ORDANCE WITH	:	ASTM D 1250-0	4	TABLE VOLUME **	8793.28	3414,45		
PROD TEMP 73.9 x 0.875 = 64.6625 PROD TEMP				69.1	x 0.875 = 60.4625	FREE WATER	0.00	0.00		
(+) AIR TEMP	75.0 x	0.125 = 9.3750	(+) AIR TEMP	70.0	x 0.125 = 8.7500	OBSERVED VOLUME	8793.28	3414.45		
TANK SHELLTEMP	PERATURE:	= 74	TANK SHELL TE	MPERATURE	= 69	TANK SHELL CORR.	1.00000	1.00000		
ROOF CORRECTI	ON INFO - STAN	IDARD API:				OBSERVED VOLUME	8793.28	3414.45		
CRITICAL ZONE F	ANGE FROM	то	ROOF	LEG HI	GH LOW	ROOF CORRECTION	0.00	0.00		
		ąo or	PEN		CLOSE	GROSS OBSERVED VOL.	8793.28	3414.45		
AVG INN/ULL IN C	RITICAL ZONE	YES	✓ NO	YES	✓ NO	^VCF TABLE : (t 6B)	1.00000	1.00000		
SIDEGAUGE/ATG		26-9	26-9	10-0	-7 10-0-8	GROSS STANDARD VOL.	8793.28	3414.45		
TEMPERATURES	δ k	# PROBE	MERCURY	# PROB	E MERCURY	DIFFERENCE 5378.83				
* ACTION TAKEN	:	OU VM	73.9 L	O V	M 69.1 L	CUSTODY TRANSFER SAMPLE:				
		M		I M		API @ 60°F				
OTHER*				OTHER*		S&W% VOL.				
SIDETEMP/REMO	SIDETEMP/REMOTE					S & W VOLUME				
PROBE WAS CHE	PROBE WAS CHECKED PRIOR TO USE Y YES NO			NOT USED		NET STANDARD VOLUME				
SAMPLING	SAMPLING U M M		n VL	O U	M DL	WCF TABLE : (t 8)		***************************************		
* ACTION TAKEN	7	От Ов	B	Dr C	в [] я	GROSS STANDARD WT.				
	*** ** ** ** * * * * * * * * * * * * *	OTHER*		OTHER*		NET STANDARD WEIGHT				
AT ULLAGES :					······································	WEIGHT UNITS LT	MT Y LBS	OTHER:		
CAL DATE		Ref TSh Temp:	60	OP TEMP :		** IS TABLE VOLUME IN BBLS M³ OTHER:				

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F-10								Page [2] 01 [3]	
PORT / TERMINA	L: LAKE CHARLI	ES	/ CITGO		OFFICE LAKE	CHARLES, LA	TEL (337) 625-1455		
VESSEL CCL 7			VOY#		INSPECTOR(S):	BELLON	SGS FILE 119101		
CARGO SPENT	CAUSTIC	***************************************			CLIENT CESE	Environmental	REF TBD	·	
000			SHOR	E TANK ME	ASUREMENT	S (STATIC)			
505		¥	AT LOADING	·	TRANSFER	AT DISCHARGE	Oil Gas & Chemicals S	Services Division.	
SHORETANK #	182	REF HE	GHT: FLOATIN	G ROOF G	AUGE UNITS	FT-IN 🗆 FT 🗆	MM OTHER:		
ſ	E:11/5/2008 T			E: 11/6/2008 TI	ME: 6:15		OPEN	CLOSE	
OBS. REF. HEIGHT	§ INNAGE	#WATER INNAGE	OBS. REF. HEIGHT	§ INNAGE	∝WATER INNAGE	INSPECTOR:	JOE BUSBY	JOE BUSBY	
18-10-1/2	16-4-6	0-0-0	12-4-1/4	9-10-1/8	0-0-0	WITNESS:			
						API @ 60°F			
						SOURCE	· · · · · · · · · · · · · · · · · · ·		
		***************************************	<u> </u>		AMBIENT AIR TEMP		74.0	75.0	
						TEMP OF TANK SHELL	72	75	
	**************************************					AVG TEMP (0.1°F)	72.1	75.1	
§ MEASUREMENT	TS TAKEN IN ACC	ORDANCE WITH	÷	INNAGE: API MPI	VIS 3.1A.9.2	AVG INNAGE	16-4-6	9-10-1/8	
* FREE WATER DETERMINED IN ACCORDANCE WITH :			API MPMS 3.1A.1	0.1	AVG WATER INNAGE	0-0-0	0-0-0		
# TEMPERATURE	S TAKEN IN ACCO	PRDANCE WITH	:	API MPMS 7.6.4		VOLUME UNITS BB	LS M3 OTHER	:	
^ VOLUME CALC	ULATED IN ACCO	RDANCE WITH	4 +	ASTM D 1250-04		TABLE VOLUME **	5235.18	3132.28	
PROD TEMP	72.1 x 0.	875 = 63.0875	PROD TEMP	75.1 x 0	.875 = 65.7125	FREE WATER	0.00	0.00	
(+) AIR TEMP	74.0 x 0.		(+) AIR TEMP	75.0 x 0	9.3750	OBSERVED VOLUME	5235,18	3132.28	
TANK SHELLTEM	PERATURE:	= 72	TANK SHELL TE	MPERATURE	= 75	TANK SHELL CORR.	1.00000	1.00000	
ROOF CORRECTI	ION INFO - STAND	ARD API:				OBSERVED VOLUME	5235.18	3132.28	
CRITICAL ZONE F	RANGE FROM	то	ROOF	LEG HIGH	ı LOW	ROOF CORRECTION	0.00	0.00	
		OF	EN		OSE	GROSS OBSERVED VOL.	5235.18	3132.28	
AVG INN/ULL IN C	CRITICAL ZONE	YES	✓ NO	YES	✓ NO	^VCF TABLE : (t 6B)	1.00000	1.00000	
SIDEGAUGE/ATG	······································	15-8-4	15-8-3	9-1-12	9-1-13	GROSS STANDARD VOL.	5235.18	3132.28	
TEMPERATURES	· ºF	# Y PROBE	MERCURY	# Y PROBE	MERCURY	DIFFERENCE	NCE 2102.90		
* ACTION TAKEN	*ACTION TAKEN : U M 72.1 L			U V N	/ 75.1 □ L	CUSTODY TRANSFER SAMPLE:			
M				T M		API @ 60°F/ DE			
OTHER*			OTHER*		S & W % VOL.				
SIDETEMP/REMO	OTE					S & W VOLUME			
PROBE WAS CHE	ECKED PRIOR TO	USE Y YES	NO	NOT USED		NET STANDARD VOLUME			
SAMPLING	·····	V U V N	1 Y L		M L	WCF TABLE : (t 8)			
* ACTION TAKEN	V :	Пт Пв	············	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3	GROSS STANDARD WT.			

OTHER*

OP TEMP:

CAL-PATE: F Copyright SOS-OG&C 2001 - Rev April 2005

AT ULLAGES :

OTHER*

Ref TSh Temp: 60

M3 Services rendered according to published General Terms and Conditions

OTHER:

OTHER:

¥ LBS

MT

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** IS TABLE VOLUME IN V BBLS

NET STANDARD WEIGHT

WEIGHT UNITS

V.	1.7		(2)	NP .	
	30.0	٠.		11.	

F-10								Proce 3 of 3	
PORT / TERMINAL:	LAKE CHARLE	ES	/ CITGO		OFFICE LAKE	CHARLES, LA	TEL (337) 625-1455		
VESSEL CCL 7			VOY#		INSPECTOR(S):	BELLON	SGS FILE 119101		
CARGO SPENT	CAUSTIC				CLIENT CESE	nvironmental	REF TBD		
SGS			SHOR AT LOADING	getter (SUREMENTS	S (STATIC) At discharge	Oil Gas & Chemicals S	ervices Division.	
SHORETANK #		REF HEI	GHT:	G/	AUGE UNITS	FT-IN I FT I	MM OTHER:		
		ME: 9:20		E: 11/6/2008 TIM	ME: 12:00		OPEN	CLOSE	
OBS. REF. HEIGHT	INNAGE	# WATER INNAGE	OBS. REF. HEIGHT	§ INNAGE	×WATER INNAGE	INSPECTOR:	JOE BUSBY	JOE BUSBY	
16-7	13-1-1	0-0-0	14-1-08	11-5-15	0-0-0	WITNESS:			
						API @ 60ºF			
						SOURCE			
						AMBIENT AIR TEMP	75.0	76.0	
						TEMP OF TANK SHELL	76	77	
						AVG TEMP (0.1ºF)	76.4	76.6	
§ MEASUREMENTS	TAKEN IN ACC	ORDANCE WITH	:	INNAGE: API MPM	S 3.1A.9.2	AVG INNAGE	13-1-1	11-5-15	
* FREE WATER DE	TERMINED IN AC	CORDANCE WITH	:	API MPMS 3.1A.10	.1	AVG WATER INNAGE	0-0-0	0-0-0	
# TEMPERATURES TAKEN IN ACCORDANCE WITH :				API MPMS 7.6.4		VOLUME UNITS 🗸 BBI	S M3 OTHER	*	
^ VOLUME CALCULATED IN ACCORDANCE WITH :			ASTM D 1250-04		TABLE VOLUME **	4178.68	3664.71		
PROD TEMP	76.4 x 0.	.875 = 66.8500	PROD TEMP	76.6 x 0.	875 = 67.0250	FREE WATER	0.00	0.00	
(+) AIR TEMP	75.0 x 0.	. 125 = 9.3750	(+) AIR TEMP	76.0 x 0.	125 = 9.5000	OBSERVED VOLUME	4178.68	3664.71	
TANK SHELLTEMPI	ERATURE:	= 76	TANK SHELL TE	MPERATURE	= 77	TANK SHELL CORR.	1.00000	1.00000	
ROOF CORRECTIO	N INFO - STAND	ARD API:				OBSERVED VOLUME	4178.68	3664.71	
CRITICAL ZONE RA	ANGE FROM	то	ROOF	EG HIGH	LOW	ROOF CORRECTION	0.00	0.00	
**************************************	***************************************	OP	EN	CLC	DSE	GROSS OBSERVED VOL.	4178.68	3664.71	
AVG INN/ULL IN CF	RITICAL ZONE	YES	✓ NO	YES	✓ NO	^VCF TABLE : (t 6B)	1.00000	1.00000	
SIDEGAUGE/ATG		12-4-14	12-4-14	10-9-12	10-9-12	GROSS STANDARD VOL.	4178.68	3664.71	
TEMPERATURES 9	F	# Y PROBE	MERCURY	# Y PROBE	MERCURY	DIFFERENCE	513.97		
* ACTION TAKEN :		U YM	76.4 🗍 L	U V M	76.6 L	CUSTODY TRANSFER SAM	PLE:		
	O M			ΩM		API @ 60ºF/ DE			
		OTHER*		OTHER*		S & W % VOL.			
SIDETEMP/REMOT	E					S & W VOLUME			
PROBE WAS CHEC	CKED PRIOR TO	USE YES	NO D	NOT USED		NET STANDARD VOLUME			
SAMPLING	VIII.	V U ∨ N	1 Y L			WCF TABLE : (t 8)	·		
* ACTION TAKEN :	•	От Ов	B	От Ов	O R	GROSS STANDARD WT.	······································		

OTHER*

OP TEMP :

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OTHER*

Ref TSh Temp: 60

M3 Services rendered according to published General Terms and Conditions

LBS

OTHER:

OTHER:

NET STANDARD WEIGHT

** IS TABLE VOLUME IN 🗹

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■ MT

BBLS

WEIGHT UNITS

AT ULLAGES :

F-15											Pe	age paths of		
PORT/	TERMINAL:	LAKE CHARI	ES	/ CIT	GO .		OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455							
VESSE	CCL 7			VOY	#:		INSPECTOR(S): BELLON SGS FILE: 119101							
DATE:	11/4/2	008 CARGO :	SPENT CAL	JSTIC			CLIENT: CES	S Environment	al	REF: TBD				
CI	·C			VES	SEL MEASU	REMEN'	SYSTEM	OPEN	CLOSE / R	ESTRICTED				
Ol	10				ARRIVAL	<u> </u>	DEPARTURE Oil Gas & Chemicals Services Division.							
	✓ AT L	OADING	AT TRANS	HIPMENT	AT DISCHA	RGE	CAR	GO TANKS	BALLA	ST TANKS	NO	N/OTHER CARG	.O	
UNITS		FT-IN	FT	100	MM 🔝	OTHER:	UNITS: BBLS U.S. GALS M3 OTHER:							
TANK #		OBSERVED REFERENCE HEIGHT	¤ INNAGE	WATER INNAGE	TEMPERATURE °F § PROBE	AVG. TEMP	CORRECTED MEASURE	TOTAL OBSERVED VOLUME	FREE WATER	GROSS OBSERVED VOLUME	^ V.C.F. (t 6B)	GROSS STANDARD VOLUME	•	
1C	15-7	15-7	10-11-1/4	0-0-0	73.1	73.1	10-11-1/4	2799.91	0.00	2799.91	1.00000	2799.91	С	
2C	15-7	15-7	10-8-1/2	0-0-0	75.2	75.2	10-8-1/2	2801.08	0.00	2801.08	1.00000	2801.08	С	
3C	15-7	15-7	9-7-1/2	0-0-0	72.3	72.3	9-7-1/2	2521.03	0.00	2521.03	1.00000	2521.03	С	
				<u> </u>									\perp	
			<u> </u>										\mathbb{L}	
													1	
PROBE	WAS CHECKE	D PRIOR TO US	E 🗸 YE	S N	O NOTUS	ED	TOTALS	8122.02	0.00	8122.02		8122.02		
GAUGE	LOCATION	: STAND	PIPE	G.H. on l	Expansion Trunk		CORRECTED MEASURE: w = Wedge corrected, t = Trim corrected							
		OTHER	₹:				API @ 60°F SOURCE :							
* GAU	GE POSITIO	N: C = Center	of tank F = Fo	rward of Cer	iter A = Aft of Cent	er	S & W - VOL %: SOURCE:							
SAMPL	ES DRAWN	: 1 QT PER	TANK				S & W - VOL :			WCF TAB	LE:(t 8)		
							NET STANDA	RD VOLUME						
BALLA	ST TANKS F	PERMANENT	Y YES I	F NO (SEE F-15 BALLAST	TANKS)	GROSS STAN	IDARD WEIGHT	ſ					
SEASU	CTION SEA	L #'S :					NET STANDA	RD WEIGHT						
DRAFT	: FWD (P) 9-6	AFT (P) 9-6	LIST :	º (P) / (S	TOTAL CALC	. VOL. DEPART	URE					
	(S) 9-6	(\$) 9-6			REMARKS:							
SEA	A CONDITIO	N: CALMIN F	PORT					CULATED IN ACC			ASTM D 125	0-04		
	***************************************			JOE BUSBY	(GAUGES IN ACC	-		API MPMS 1	7.2.5.2		
	WEINVES	SEL'S STAFF			INSPECTOR		§TEMPERATURI	E DETERMINATIO	N IN ACCORDA	NCE WITH	API MPMS 7	.6.4		
Copyright	rsgs:OG&C	2001 - Rev April 2	005						Services ren	dered according to	oublished Gene	eral Terms and Cor	dition	

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PORT / TERMINAL: LAKE CHARI	ES / CITGO	OFFICE: LAKE CHARLES, LA	TEL: (337) 625-1455
VESSEL: CCL 7	VOY #:	INSPECTOR(S): BELLON	SGS FILE: 119101
DATE: 11/4/2008 CARGO:	SPENT CAUSTIC	CLIENT: CES Environmental	REF: TBD

ROB MEASUREMENT ✓ OBQ 202

HEIGHT REFERENC INNAGE IN	JU					NOTE:	DO NOT USE V	.C.F. IF T	EMPERATURE	IS NOT TAKEN		Oil Gas 8	Chemicals Servi	ces Division.
HEIGHT REFERENC INNAGE	UNITS :	✓ F	T-IN		FT	MM		THER:		UNITS : 🗹	BBLS	U.S. GALS		OTHER:
2 15-7	TANK #	HEIGHT	REFERENC	*		WATER	1		1 "	OBSERVED		WATER		LIQUID VOLUME
3 15=7 C 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0	1	15-7		С	0-0	0-0	0-0		0-0	29.24		0.00	0.00	29.24
**VOLUME CALCULATED IN ACCORDANGE WITH On behalf of our client(s) we would like to bring to your attention that in our opinion: Bbls of LIQUID MATERIAL Bbls of NON-LIQUID MATERIAL remains on board your vessel. To the extret we are sware of contractual relationship, this material belongs to our client(s) and should be pumped androe. It is any event, we have to addise pumped and your makens below. The arrive warm was and reserve his right to seek compensation for the uncellivered amount. Sitelements with regards to flowability and similar advisory services express personal opinions without responsibility for SGS. STEVE BELLON STEVE BELLON STEVE BELLON STEVE BELLON SIGNAMPLED VES 0 NO IF NO REASON DRAFT: FWD (P) 2-3 AFT (P) 1-3 LIST: 9 DRAFT: FWD (P) 2-3 AFT (P) 1-3 LIST: 9 DRAFT: FWD (P) 2-3 AFT (P) 1-3 LIST: 9 DRAFT: FWD (P) 2-3 AFT (P) 1-3 LIST: 9 DRAFT: FWD (P) 2-3 AFT (P) 1-3 LIST: 9 DRAFT: FWD (P) 2-3 AFT (P) 1-3 LIST: 9 DRAFT: FWD (P) 2-3 AFT (P) 1-3 LIST: 9 DRAFT: FWD (P) 2-3 AFT (P) 1-3 LIST: 9	2	15-7		С	0-0	0-0	0-0		0-0	0.00		0.00	0,00	0.00
On behalf of our client(s) we would like to bring to your attention that in our opinion: Bbls of LIQUID MATERIAL Bbls of NON-LIQUID MATERIAL remains on board your vessel. To the extent we are aware of contractual relationships, this material belongs to our client(s) and should be pumped ashore. In case you are unable to do so please indicate your reasons below. In any event, we have to advise our client(s) of the above and reserve his right to seek compensation for the undelivered amount. Statements with regards to flowability and similiar advisory services express personal opinions without responsibility for SGS. BOB SAMPLED YES NO IF NO REASON	3	15=7		С	0-0	0-0	0-0		0-0	0.00		0.00	0.00	0.00
On behalf of our client(s) we would like to bring to your attention that in our opinion: Bbls of LIQUID MATERIAL Bbls of NON-LIQUID MATERIAL remains on board your vessel. To the extent we are aware of contractual relationships, this material belongs to our client(s) and should be pumped ashore. In case you are unable to do so please indicate your reasons below. In any event, we have to advise our client(s) of the above and reserve his right to seek compensation for the undelivered amount. Statements with regards to flowability and similiar advisory services express personal opinions without responsibility for SGS. BOB SAMPLED YES NO IF NO REASON														
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On behalf of our client(s) we would like to bring to your attention that in our opinion: Bbls of LiQUID MATERIAL Bbls of NON-LiQUID MATERIAL remains on board your vessel. To the extent we are aware of contractual relationships, this material belongs to our client(s) and should be pumped ashore. In case you are unable to do so please indicate your reasons below. In any event, we have to advise our client(s) of the above and reserve his right to seek compensation for the undelivered amount. Statements with regards to flowability and similiar advisory services express personal opinions without responsibility for SGS. BOB SAMPLED YES NO IF NO REASON OBQ TESTED YES NO IF NO REASON DRAFT: FWD (P) 2-3 AFT (P) 1-3 LIST: GOB SAMPLED STEVE BELLON (S) 2-3 (S) 1-3														
On behalf of our client(s) we would like to bring to your attention that in our opinion: Bbls of LIQUID MATERIAL Bbls of NON-LIQUID MATERIAL remains on board your vessel. To the extent we are aware of contractual relationships, this material belongs to our client(s) and should be pumped ashore. In case you are unable to do so please indicate your reasons below. In any event, we have to advise our client(s) of the above and reserve his right to seek compensation for the undelivered amount. Statements with regards to flowability and similiar advisory services express personal opinions without responsibility for SGS. BOB SAMPLED YES NO IF NO REASON														
Bbls of LIQUID MATERIAL Bbls of NON-LIQUID MATERIAL remains on board your vessel. To the extent we are aware of contractual relationships, this material belongs to our client(s) and should be pumped ashore. In case you are unable to do so please indicate your reasons below. In any event, we have to advise our client(s) of the above and reserve his right to seek compensation for the undelivered amount. Statements with regards to flowability and similiar advisory services express personal opinions without responsibility for SGS. BOB SAMPLED YES NO IF NO REASON ROB SAMPLED YES NO IF NO REASON DRAFT: FWD (P) 2-3 AFT (P) 1-3 LIST: OR STEVE BELLON STEVE BELLON (S) 2-3 (S) 1-3	^ VC	LUME CALCUL	ATED IN ACCO	RDAN	ICE WITH			<u> </u>	TOTALS	29.24		0.00	0.00	29.24
* GAUGE POSITION: C = Center of tank F = Forward of Center A = Aft of Center relationships, this material belongs to our client(s) and should be pumped ashore. In case you are unable to do so please indicate your reasons below. In any event, we have to advise our client(s) of the above and reserve his right to seek compensation for the undelivered amount. Statements with regards to flowability and similiar advisory services express personal opinions without responsibility for SGS. **GAUGE POSITION: C = Center of tank F = Forward of Center A = Aft of Center OBQ SAMPLED **OBQ SAMPLED **OBG SAMPLED **OBQ SAMPL	On b	ehalf of our clic	Bbls of L	IQU	ID MATERI	AL	our opinion :		1	CATION: 🗹 S	TANDPIPE			
relationships, this material belongs to our client(s) and should be pumped ashore. In case you are unable to do so please indicate your reasons below. In any event, we have to advise our client(s) of the above and reserve his right to seek compensation for the undelivered amount. Statements with regards to flowability and similiar advisory services express personal opinions without responsibility for SGS. OBQ SAMPLED YES NO IF NO REASON	rom	aine on hoard w					1		* GAUGE P	OSITION: C = Ce	nter of tank	F = Forward o	f Center A = Aft o	f Center
In any event, we have to advise our client(s) of the above and reserve his right to seek compensation for the undelivered amount. Statements with regards to flowability and similiar advisory services express personal opinions without responsibility for SGS. ROB SAMPLED YES NO IF NO REASON PRAFT: FWD (P) 2-3 AFT (P) 1-3 LIST: STEVE BELLON (S) 2-3 (S) 1-3	relat	ionships, this n	naterial belongs	to ou	r client(s) and si	hould be pumpe			OBQ SAM	IPLED	YES 🗸	NO IF NO	REASON	
Statements with regards to flowability and similiar advisory services express personal opinions without responsibility for SGS. ROB SAMPLED YES NO IF NO REASON DRAFT: FWD (P) 2-3 AFT (P) 1-3 LIST: STEVE BELLON (S) 2-3 (S) 1-3	In ar	ny event, we hav	re to advise our o	client	(s) of the above		right to seek		OBQ TES	TED 🗔	YES	NO IF NO	REASON	
ROB SAMPLED YES					d similiar adviso	ory services exp	ress personal						***************************************	***************************************
STEVE BELLON (S) 2-3 (S) 1-3									ROB SAM	PLED	YES [NO IF NO	REASON	
STEVE BELLON (S) 2-3 (S) 1-3		er years (Thirt and Alberta			***************************************	·····		······································	DRAFT:	FWD (P) 2-3		AFT (P) 1-3	LIS.	T: ⁹ (P) / (S)
57.5 F. P. M. A. D. F. STAN (E						STE	/E BELLON			(S) 2-3		(S) 1-3		
]{["[Wessi	L'S STAFF		***************************************		NSPECTOR	······································	SEA CO	NDITION: CALM	I IN PORT			***************************************

F•7					*****			
PORT/TERMINAL: LAKI	E CHARLE / CITO	GO	OFFICE:	LAKE CHAF	RLES, LA	TEL: ((337) 625-14	155
VESSEL: CCL 7	VOY #:			OR(S): BELL	,	· · · · · · · · · · · · · · · · · · ·	<u>`</u>	
DATE: 11/4/2008	······································		SGS FILE	: 119101	, , , , , , , , , , , , , , , , , , ,			
CARGO: SPENT CAUS	TIC			CES Enviror	mental	REF:	TBD	
000		FORMATION FO	OR CLEAN	INESS INS	PECTION			
<u> 565</u>						& Chemic	als Services	Division.
AT LOADING	AT TRANSFER	AT DISCHARG	E	SHO	RE	V	VESSEL	
THE INFORMA	ATION ON THIS LIRIS F-7 WI	LL BE USED TO COMPLE	TE LIRIS F-9 WAS	S SUBMITTED TO U	S BY THE PERS	ON(S) INDICA	TEO BELOW	
WE CONSULTED FOR TA	ANK INSPECTION ON	(DATE) 11/4/20	008 (TIME)	14:	15 WITH:			
VESSEL'S	STAFF B	ARGE OPERATOR	TE	RMINAL REPR	RESENTATIV	/E	CHARTER	RER
OTHER (SPECIFY):								
PLEASE PRINT NAME(S	5)			***************************************				

TANK MATERIAL:		*						
TANK #:	[1-3C						- T	
MATERIAL.	MILD STEE	L						
COATING NAME	N/A							
APPARENT CONDITION	* ACCEPTAG	BLE			<u> </u>			
TANK #:								
MATERIAL								
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								
COATING NAME						***************************************		
	*						i	
APPARENT CONDITION	CAGAINST MAI	NUFACTURERS	OTHER	(SPECIFY)		CHEC	CKLIST	
APPARENT CONDITION		NUFACTURERS	OTHER	(SPECIFY)		CHEC	CKLIST	
APPARENT CONDITION COATING WAS CHECKED F NOT CHECKED, REAS	0				PERCENTA			TIONS)
APPARENT CONDITION COATING WAS CHECKED F NOT CHECKED, REAS SELECT: e.g. % N	O IISSING % DISCOLO	ORED %PEELING	ACCEPTABL	E etc. (ALL		GES ARE A		TIONS)
APPARENT CONDITION COATING WAS CHECKEI F NOT CHECKED, REAS SELECT: e.g. % N UR INSPECTION FOR F-9 COVER	O IISSING % DISCOLO	ORED %PEELING	ACCEPTABL	E etc. (ALL		GES ARE A		TIONS)
APPARENT CONDITION COATING WAS CHECKED F NOT CHECKED, REASO SELECT: e.g. % N OUR INSPECTION FOR F-9 COVER PREVIOUS CARGOES:	O NISSING % DISCOLO	DRED %PEELING HE COATINGS, NOT ITS	ACCEPTABL SUITABILITY IN RI	E etc. (ALL	CONTAMINATI	GES ARE A	APPROXIMAT	
APPARENT CONDITION COATING WAS CHECKED F NOT CHECKED, REASO SELECT: e.g. % N OUR INSPECTION FOR F-9 COVER PREVIOUS CARGOES: TANK#	O IISSING % DISCOLO RS THE CLEANLINESS OF T THIRD LAST	ORED %PEELING HE COATINGS, NOT ITS SECO	ACCEPTABI SUITABILITY IN RI	E etc. (ALL	CONTAMINATION	GES ARE A	APPROXIMAT	ATIBLE
APPARENT CONDITION COATING WAS CHECKED F NOT CHECKED, REAS SELECT: e.g. % N UR INSPECTION FOR F-9 COVER PREVIOUS CARGOES: TANK#	O NISSING % DISCOLO	DRED %PEELING HE COATINGS, NOT ITS	ACCEPTABI SUITABILITY IN RI	E etc. (ALL	CONTAMINATI	GES ARE A	COMF	'ATIBLE NO
APPARENT CONDITION COATING WAS CHECKED F NOT CHECKED, REAS SELECT: e.g. % N UR INSPECTION FOR F-9 COVER PREVIOUS CARGOES: TANK#	O IISSING % DISCOLO RS THE CLEANLINESS OF T THIRD LAST	ORED %PEELING HE COATINGS, NOT ITS SECO	ACCEPTABI SUITABILITY IN RI	E etc. (ALL	CONTAMINATION	GES ARE A	COMF	PATIBLE NO NO
APPARENT CONDITION COATING WAS CHECKED F NOT CHECKED, REAS SELECT: e.g. % N UR INSPECTION FOR F-9 COVER PREVIOUS CARGOES: TANK#	O IISSING % DISCOLO RS THE CLEANLINESS OF T THIRD LAST	ORED %PEELING HE COATINGS, NOT ITS SECO	ACCEPTABI SUITABILITY IN RI	E etc. (ALL	CONTAMINATION	GES ARE A	COMF YES YES YES	PATIBLE NO NO NO
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APPARENT CONDITION COATING WAS CHECKED F NOT CHECKED, REAS SELECT: e.g. % N FUR INSPECTION FOR F-9 COVER PREVIOUS CARGOES: TANK# 3C SPENT LINES - PUMPS:	O IISSING % DISCOLORS THE CLEANLINESS OF THE CLEANLINESS OF THE CLEANLINESS OF THE CAUSTIC	SECO	ACCEPTABI SUITABILITY IN RI DND LAST STIC	SPENT	LAST CAUSTIC PRE YES YES YES YES	SSED WIT	COMF YES YES YES YES YES YES YES YES PRESSURE PRESSURE PRESSURE	PATIBLE NO NO NO NO NO NO NO NO
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	Page	1 01 1
ORT / TERMINAL: LAKE CHARLE / CITGO	OFFICE: LAKE CHARLES, LA TEL: (337) 62	25-1455
/ESSEL: CCL 7 VOY #:	INSPECTOR(S): BELLON	
PATE: 11/4/2008	SGS FILE: 119101	
CARGO: SPENT CAUSTIC	CLIENT: CES Environmental REF: TBD	
SGS TANK CLEA	ANLINESS INSPECTION Oil Gas & Chemicals Serv	rices Division.
✓ AT LOADING □ AT TRANSFER □ AT DISCHARGE	AS INSPECTION ONLY AS PR	E-INSPECTION
USE A SEPARA	ATE FORM F-9 PER INSPECTION	
THIS IS THE 🔽 FIRST 🗌 SECOND	THIRD TH INSPECTION	N
TANK(S): 1-3C		
BASED ON SUBMITTED INFORMATION (SEE LI	IRIS F-7) AND :	
inner		
	M DECKLEVEL (SEE LIRIS F-15 OR F-20)	
✓ MEASURING OF RESIDUES FROM DE		
☐ PHYSICAL ENTRY (TANK SAFE ATMO	OSPHERE STATEMENT BELOW MUST BE COMPLETED PRIOR	TO ENTRY)
AND VISUAL INSPECTION	N.E	
postug		
AND TESTING OF HEATIN	NALYTICAL REPORT ON FILE)	
AND STESTING OF REATIN	id COIES	
WERE ACCEPTED FOR CLEANLINESS TO CARRY	A CAROO OF CORENT OALIOTIO	
WERE ACCEPTED FOR CLEANLINESS TO CARRY	A CARGO OF SPENT CAUSTIC	
WERE REJECTED FOR CLEANLINESS TO CARRY	A CARGO OF	
REASON:	A CANGO OF	
neroon.		
SHIP'S STAFF AND/OR SGS SUPERVISOR AND	D/OR CLIENT NOTIFIED ON BY	
INSPECTION COMPLETED AT 14:30 HRS ON		······································
17,00 1110 011		
TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING	G BERTH IN CASE OF PRE-INSPECTION	
TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING	G BERTH IN CASE OF PRE-INSPECTION	
☐ TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING BIGNATURES: ☐ TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING ☐ TANK(S) SUBJECT TO A FINAL INSPECTION		BELLON
	STEVE B	
SIGNATURES :	STEVE B FOR TERMINAL INSPEC	CTOR
FOR VESSEL IS THIS TANK ACCEPTANCE BASED SOLELY ON SUBMIT	STEVE B FOR TERMINAL INSPECTITED INFORMATION EVALUATION? YES	
FOR VESSEL IS THIS TANK ACCEPTANCE BASED SOLELY ON SUBMIT	STEVE B FOR TERMINAL INSPECTITED INFORMATION EVALUATION? YES	CTOR
FOR VESSEL FOR VESSEL IS THIS TANK ACCEPTANCE BASED SOLELY ON SUBMIT F YES; ISSUE N.O.A.D. AND INFORM YOUR SGS SU	STEVE B FOR TERMINAL INSPECTITED INFORMATION EVALUATION? YES	CTOR
FOR VESSEL FOR VESSEL IS THIS TANK ACCEPTANCE BASED SOLELY ON SUBMIT F YES; ISSUE N.O.A.D. AND INFORM YOUR SGS SU TANK SAFE	STEVE B FOR TERMINAL INSPECT ITED INFORMATION EVALUATION? YES UPERVISOR AND/OR CLIENT(S) IMMEDIATELY. E ATMOSPHERE STATEMENT	NO NO
FOR VESSEL IS THIS TANK ACCEPTANCE BASED SOLELY ON SUBMIT F YES; ISSUE N.O.A.D. AND INFORM YOUR SGS SU TANK SAFE e undersigned certifies that those tank(s) indicated o	FOR TERMINAL INSPECTION INSPECTION INFORMATION EVALUATION? UPERVISOR AND/OR CLIENT(S) IMMEDIATELY. E ATMOSPHERE STATEMENT on line 13 of this page have been cleaned and gas freed and	NO NO
FOR VESSEL IS THIS TANK ACCEPTANCE BASED SOLELY ON SUBMIT F YES; ISSUE N.O.A.D. AND INFORM YOUR SGS SU TANK SAFE e undersigned certifies that those tank(s) indicated of corted on the reverse side of the SGS F-7 and that the	STEVE B FOR TERMINAL INSPECT	NO NO
FOR VESSEL IS THIS TANK ACCEPTANCE BASED SOLELY ON SUBMIT F YES; ISSUE N.O.A.D. AND INFORM YOUR SGS SU TANK SAFE TANK SAFE TANK SAFE TO UNDERSTOOK TO UND	STEVE B FOR TERMINAL INSPECT	NO NO
FOR VESSEL FOR VESSEL IS THIS TANK ACCEPTANCE BASED SOLELY ON SUBMIT F YES; ISSUE N.O.A.D. AND INFORM YOUR SGS SU TANK SAFE e undersigned certifies that those tank(s) indicated of corted on the reverse side of the SGS F-7 and that the	STEVE B FOR TERMINAL INSPECT	NO NO
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FOR VESSEL FOR VESSEL IS THIS TANK ACCEPTANCE BASED SOLELY ON SUBMIT F YES; ISSUE N.O.A.D. AND INFORM YOUR SGS SU TANK SAFE e undersigned certifies that those tank(s) indicated or corted on the reverse side of the SGS F-7 and that the e undersigned hereby grants permission for SGS per Tank Safe Atmosphere Statement signed SIGNATURES:	FOR TERMINAL INSPECT THE INFORMATION EVALUATION? UPERVISOR AND/OR CLIENT(S) IMMEDIATELY. E ATMOSPHERE STATEMENT on line 13 of this page have been cleaned and gas freed are tank(s) in question are in all respects safe for entry. In the state of the stank of the st	NO NO
FOR VESSEL FOR VESSEL IS THIS TANK ACCEPTANCE BASED SOLELY ON SUBMIT F YES; ISSUE N.O.A.D. AND INFORM YOUR SGS SU TANK SAFE e undersigned certifies that those tank(s) indicated or corted on the reverse side of the SGS F-7 and that the e undersigned hereby grants permission for SGS personal Safe Atmosphere Statement signed	FOR TERMINAL INSPECTION INFORMATION EVALUATION? UPERVISOR AND/OR CLIENT(S) IMMEDIATELY. E ATMOSPHERE STATEMENT on line 13 of this page have been cleaned and gas freed at tank(s) in question are in all respects safe for entry. Inspection of the said tanks.	NO NO

and contact your supervisor for further instructions.

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F-14	Page (4) of (4)
PORT / TERMINAL: LAKE CHARLE / CITGO	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 7 VOY #:	INSPECTOR(S): BELLON
DATE: 11/4/2008	SGS FILE: 119101
CARGO: SPENT CAUSTIC	CLIENT: CES Environmental REF: TBD
SGS	Oil Gas & Chemicals Services Division.
✓ AT LOADING ☐ AT TRANSFER ☐ AT DISCHARGE	☐ RESIDUAL ☐ CLEAN PRODUCTS ☑ CHEMICALS/GASES
ABOVE VESSEL WILL V LOAD DISCHARGE	✓ AT THIS TERMINAL AT (SPECIFY):
AS PER CHARTER PARTY AMENDED C/P 🗹 PR	RINCIPAL'S INSTRUCTIONS OTHER (SPECIFY)
	1
FOLLOWING QUANTITY(S) OF SPENT CAUSTIC	
() LT _ A	MT POUNDS OTHER (SPECIFY)
OR: (10000) 🗹 BBLS 🗆 M	OTHER AT STD. TEMP OBSERV. TEMP
THE CHARTETY OF THE CONTROL OF THE C	1
THIS QUANTITY(S) IS SPECIFIED AS: MINIMUM MAXIMUM MINIMAX PLUS	S OR MINUS OTHER (SPECIFY) APPROX.
*PLUS OR MINUS %" IS THE OPTION OF	VESSEL TERMINAL CLIENT 1
*PLUS OR MINUS %" IS OPTED FOR BY	VESSEL TERMINAL CLIENT 2
	2
THE ABOVE QUANTITY(S): - WILL BE DETERMINE	ED BY SHIP'S STOP SHORE STOP
	7 DISCHARGED FROM TANK(S) 182
- AND RECEIVED / LOA	ADED INTO TANK(S) 1-3C
VESSEL'S CO-MINGLING ACCEPTABLE TO OUR PRINCIPA	AL YES NO 21
CARGO REQUIRES SEGREGATION S	SEPARATION VOLUMETRIC BLENDING 26
	2
(SIGNATURES) VESSEL'S STAFF:	DATE: 11/4/2008 TIME: 14:40 28
TERMINAL REPRESENTATIVE :	DATE: 11/4/2008 TIME: 14:40 29
INSPECTOR: STEVE BELLON	DATE: 11/4/2008 TIME: 14:40 36
	31
	'INSPECTOR YES ✓ NO 32
	TERMINAL / VESSEL YES V NO 33
	ED BY INSPECTOR YES V NO 34
REMARKS:	35
	36
	37
	38
	39
	40
	41
	42
	43
	EMENTS WHEN REQUIRED BY OUR CLIENTS; HOWEVER, VESSEL AND 45 BSERVATION OF STOP GAUGES, VALVE SETTING AND PUMPING INTO AND OUT 46
	FRATIONS. VOLUMETRIC OR WEIGHT COMPOSITES CAN BE PREPARED FROM SEVER, DUE TO THE INHERENT DIFFICULTY IN ACHIEVING A HOMOGENEOUS SEPERANY RESPONSIBILITY.
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:	Page 3
ORT / TERMINAL: Port Arthur, Tx / Tubal-Cain Marine	OFFICE: PORT ARTHUR, TX TEL: (409) 727-1035
YESSEL: CCL 20 VOY #:	INSPECTOR(S): F. Huebach
DATE: 6/27/2008	SGS FILE: 103320
CARGO: Membrane Caustic	CLIENT: CES Environmental REF:
SGS	INESS INSPECTION Oil Gas & Chemicals Services Divi
☐ AT LOADING ☐ AT TRANSFER ☐ AT DISCHARGE	AS INSPECTION ONLY WITH CUSTODY TRANSFER
USE A SEPARATE F	FORM F-9 PER INSPECTION
THIS IS THE 🗹 FIRST 🗌 SECOND	THIRD THINSPECTION
TANK(S): 1C, 2C> Deck Level, 3C> Physical Entry	
BASED ON SUBMITTED INFORMATION (SEE LIRIS	F-7) AND :
VISUAL CHECK FOR RESIDUES FROM DE	CKLEVEL (SEE LIRIS E-15 OR E-20)
MEASURING OF RESIDUES FROM DECK L	,
	HERE STATEMENT BELOW MUST BE COMPLETED PRIOR TO ENTI
(
AND 🗹 VISUAL INSPECTION	
AND WALLWASHING (ANALY	TICAL REPORT ON FILE)
AND \Box TESTING OF HEATING CO	OILS
☐ WERE REJECTED FOR CLEANLINESS TO CARRY A CARRASON :	ARGO OF
SHIP'S STAFF AND/OR SGS SUPERVISOR AND/OR	CLIENT NOTIFIED ON BY
INSPECTION COMPLETED AT 10:20 HRS ON THE	6/27/2008
TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING BE	ERTH IN CASE OF PRE-INSPECTION
SIGNATURES: ON FILE	FH FH
FOR VESSEL	FOR TERMINAL INSPECTOR
* IS THIS TANK ACCEPTANCE BASED SOLELY ON SUBMITTED	
F YES; ISSUE N.O.A.D. AND INFORM YOUR	RVISOR AND/OR CLIENT(S) IMMEDIATELY.
TANK CAEE AT	MOSPHERE STATEMENT
	na 12 of this nago have been cleaned and goe freed as
e undersigned certifies that those tank(s) indicated on lin	
e undersigned certifies that those tank(s) indicated on lin ported on the reverse side of the SGS F-7 and that the tan	nk(s) in question are in all respects safe for entry.
e undersigned certifies that those tank(s) indicated on lin ported on the reverse side of the SGS F-7 and that the tan	nk(s) in question are in all respects safe for entry.
e undersigned certifies that those tank(s) indicated on lin ported on the reverse side of the SGS F-7 and that the tan	nk(s) in question are in all respects safe for entry.
ne undersigned certifies that those tank(s) indicated on lin ported on the reverse side of the SGS F-7 and that the tan ne undersigned hereby grants permission for SGS person Tank Safe Atmosphere Statement signed	nk(s) in question are in all respects safe for entry. nnel to enter said tanks.
te undersigned certifies that those tank(s) indicated on lin ported on the reverse side of the SGS F-7 and that the tan be undersigned hereby grants permission for SGS person Tank Safe Atmosphere Statement signed	nk(s) in question are in all respects safe for entry. nnel to enter said tanks. 10:00 hours on 6/27/2008
e undersigned certifies that those tank(s) indicated on lin ported on the reverse side of the SGS F-7 and that the tan e undersigned hereby grants permission for SGS person Tank Safe Atmosphere Statement signed	nk(s) in question are in all respects safe for entry. nnel to enter said tanks.

and contact your supervisor for further instructions.

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49

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PORT / TERMINAL	-: Port Arthur, 1	Γx / LA Ash		OFFICE:	PORT ARTH	IUR, TX	TEL: ((409) 727-	1035	
VESSEL: CCL 20		VOY#:		INSPECTO	R(S): H. BE	СКСОМ				
DATE: 6/13/2008				3S FILE:	103320					
CARGO: Membrai	ne Caustic			CLIENT:	CES Environ	mental	REF:			
SGS		INFOR	MATION FOR	R CLEANLI	NESS INSI		& Chemic	als Service	s Divis	ion.
AT LOADING	☐ AT TR	ANSFER .	AT DISCHARGE		□ ѕно	RE		VESSEL		
THE	INFORMATION ON	THIS LIRIS F-7 WILL BE	USED TO COMPLETE	LIRIS F-9 WAS	UBMITTED TO U	S BY THE PERS	ON(S) INDICA	TED BELOW		
WE CONSULTED	FOR TANK INS	PECTION ON (DA	TE) 6/13/200	8 (TIME)	13:0	OO WITH:				
	SSEL'S STAFF	✓ BARGE	OPERATOR	TER	MINAL REPR	ESENTATIV	<u>E </u>	CHARTE	RER	
OTHER (SPE										
PLEASE PRINT N	NAME(S)									
				·····						
TANK MATERIAL:							***************************************			
TANK#:		1-3C								
MATERIAL		STEEL								
COATING NAME		ZINC								
APPARENT COND	OITION *	ACCEPTABLE								
TANK #:										
MATERIAL							·····			
COATING NAME										
APPARENT COND	NTION *	l .		1		1		1		
					«		21111111111111			
COATING WAS CHECKED		IST MANUFA	CTURERS	OTHER	SPECIFY)		CHE	CKLIST		
IF NOT CHECKED	, REASO	% DISCOLORED				PERCENTAC			ATIONS)
IF NOT CHECKED	, REASO .g. % MISSING	% DISCOLORED	%PEELING A	CCEPTABLI	etc. (ALL.		GES ARE A		TIONS)
IF NOT CHECKED * SELECT: e. OUR INSPECTION FOR F	, REASO .g. % MISSING -9 COVERS THE CL	% DISCOLORED	%PEELING A	CCEPTABLI	etc. (ALL.		GES ARE A		ATIONS)
IF NOT CHECKED * SELECT: e. OUR INSPECTION FOR F	, REASO .g. % MISSING -9 COVERS THE CL OES:	% DISCOLORED) %PEELING A	ACCEPTABLI	etc. (ALL.	CONTAMINATIO	GES ARE A	APPROXIM <i>i</i>		
IF NOT CHECKED * SELECT: e. OUR INSPECTION FOR F PREVIOUS CARG TANK#	, REASO .g. % MISSING -9 COVERS THE CL OES:	% DISCOLORED	%PEELING A	ACCEPTABLI	E etc. (ALL I	CONTAMINATIO	GES ARE A	APPROXIMA	IPATIB	LE
IF NOT CHECKED * SELECT: e. OUR INSPECTION FOR F PREVIOUS CARG TANK#	, REASO .g. % MISSING -9 COVERS THE CL OES:	% DISCOLORED) %PEELING A	ACCEPTABLI	E etc. (ALL I	CONTAMINATIO	GES ARE A	COM	IPATIBI	LE NO
IF NOT CHECKED * SELECT: e. OUR INSPECTION FOR F PREVIOUS CARG TANK#	, REASO .g. % MISSING -9 COVERS THE CL OES:	% DISCOLORED) %PEELING A	ACCEPTABLI	E etc. (ALL I	CONTAMINATIO	GES ARE A	CON YES	IPATIBI	LE NO NO
IF NOT CHECKED * SELECT: e. OUR INSPECTION FOR F PREVIOUS CARG TANK#	, REASO .g. % MISSING -9 COVERS THE CL OES:	% DISCOLORED) %PEELING A	ACCEPTABLI	E etc. (ALL I	CONTAMINATIO	GES ARE A	COM Yes Yes	PATIB	LE NO NO
IF NOT CHECKED * SELECT: e. OUR INSPECTION FOR F PREVIOUS CARG TANK#	, REASO .g. % MISSING -9 COVERS THE CL OES:	% DISCOLORED) %PEELING A	ACCEPTABLI	E etc. (ALL I	CONTAMINATIO	GES ARE A	COM Yes Yes Yes	IPATIBI	LE NO NO NO
IF NOT CHECKED * SELECT: e. OUR INSPECTION FOR F PREVIOUS CARG TANK#	, REASO .g. % MISSING -9 COVERS THE CL OES:	% DISCOLORED) %PEELING A	ACCEPTABLI	E etc. (ALL I	CONTAMINATIO	GES ARE A	COM Yes Yes Yes Yes	PATIBI	LE NO NO NO NO
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IF NOT CHECKED * SELECT: e. OUR INSPECTION FOR F PREVIOUS CARG TANK#	, REASO .g. % MISSING -9 COVERS THE CL OES:	% DISCOLORED) %PEELING A	ACCEPTABLI	E etc. (ALL I	CONTAMINATIO	GES ARE A	COM Yes Yes Yes Yes Yes Yes	PATIBLE	LE NO NO NO NO NO
IF NOT CHECKED * SELECT: e. OUR INSPECTION FOR F PREVIOUS CARG TANK# -3C	, REASO .g. % MISSING -9 COVERS THE CL OES:	% DISCOLORED) %PEELING A	ACCEPTABLI	E etc. (ALL I	CONTAMINATIO	GES ARE A	COM YES YES YES YES	PATIBI	LE NO NO NO NO NO
IF NOT CHECKED * SELECT: e. OUR INSPECTION FOR F PREVIOUS CARG TANK#	, REASO .g. % MISSING -9 COVERS THE CL OES: THIRD	% DISCOLORED	SECONI	ACCEPTABLI	SULFIDI	LAST C CAUSTIC	GES ARE A	COM Yes Yes Yes Yes Yes Yes	PATIB	LE NO NO NO NO NO
IF NOT CHECKED * SELECT: e. OUR INSPECTION FOR F PREVIOUS CARG TANK# -3C LINES - PUMPS: NAME	, REASO .g. % MISSING -9 COVERS THE CL OES: THIRD	% DISCOLORED EANLINESS OF THE CO	SECONI	ACCEPTABLI ITABILITY IN REC	SULFIDI	LAST C CAUSTIC	SSED WIT	COM Yes Yes Yes Yes Yes Yes Yes Ye	PATIBI	LE NO NO NO NO NO
IF NOT CHECKED * SELECT: e. OUR INSPECTION FOR F PREVIOUS CARG TANK# -3C LINES - PUMPS: NAME	, REASO .g. % MISSING -9 COVERS THE CL OES: THIRD	% DISCOLORED EANLINESS OF THE CO	SECONI	ACCEPTABLI ITABILITY IN REC	SULFIDI	LAST C CAUSTIC	GES ARE A	COM YES	PATIB	LE NO NO NO NO NO
IF NOT CHECKED * SELECT: e. OUR INSPECTION FOR F PREVIOUS CARG TANK# -3C LINES - PUMPS: NAME	, REASO .g. % MISSING -9 COVERS THE CL OES: THIRD	% DISCOLORED EANLINESS OF THE CO	SECONI	ACCEPTABLI ITABILITY IN REC	SULFIDI	LAST C CAUSTIC PRE YES YES	SSED WIT	COM YES YES YES YES YES YES YES YES PRESSUI	PATIBI 	LE NO NO NO NO NO
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ADD / TO SEELE OF CO	APPIAR DARKARRING WY PER CARACTER
PORT / TERMINAL: Port Arthur, Tx / LA Ash	OFFICE: PORT ARTHUR, TX TEL: (409) 727-1035
VESSEL: CCL 20 VOY #: DATE: 6/13/2008	INSPECTOR(S): H. BECKCOM SGS FILE: 103320
CARGO: Membrane Caustic	CLIENT: CES Environmental REF:
	ANLINESS INSPECTION
SGS	Oil Gas & Chemicals Services Division.
	AS INSPECTION ONLY AS PRE-INSPECTION
☐ AT LOADING ☐ AT TRANSFER ☐ AT DISCHARGE	E ☐ WITH CUSTODY TRANSFER
USE A SEPAR	RATE FORM F-9 PER INSPECTION
THIS IS THE FIRST SECOND	THIRD THINSPECTION
TANK(\$): 1-3C	
BASED ON SUBMITTED INFORMATION (SEE L	IRIS F-7) AND :
AND 🗹 VISUAL INSPECTION	OSPHERE STATEMENT BELOW MUST BE COMPLETED PRIOR TO ENTRY) N NALYTICAL REPORT ON FILE)
■ WERE ACCEPTED FOR CLEANLINESS TO CARRY■ WERE REJECTED FOR CLEANLINESS TO CARRY	Y A CARGO OF
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✓ WERE REJECTED FOR CLEANLINESS TO CARRY	Y A CARGO OF MEMBRANE CAUSTIC
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Checked By DL
Date Oblidos

Services rendered according to published General Terms and Conditions

F-7A			Page f of 2
MOKI/IERMIN/	AL: Port Arthur, Tx / LA /	Ash OFFICE: PORT ART	
VESSEL: CCL 2		INSPECTOR(S): H.	
DATE: 6/16/2008	8	SGS FILE: 103320	
CARGO: Membr	rane Caustic	CLIENT: CES Enviro	onmental REF:
SGS	11	NFORMATION FOR CLEANLINES	S INSPECTION Oil Gas & Chemicals Services Division.
HOSES	SHORE	SHIP	
MAKE	MATERIAL	LAST	USED FOR
<u> </u>			
HEATING COILS		TI AVOCD VAL	1
IATERIAL	Tested Yes/No	FLANGED Yes/No	HEATING CAPACITY (IF CARGO HEATED) 1
	No		
	No		
✓ CLEANIN	NG RECLEANING		1
TANKS:			1
1-3C	> COLD WATER AND D	ETERGENT WASHED, STRIPPED AND I	DRIED 1
			2
			2
			2
	*		2
			2
			2
PUMPS:			2
AME AS ABOV	E		2
			2
	·	***************************************	2!
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			31
	·		3:
	·······		3:
			3:
LINES:			34
ME AS ABOV	E		3:
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IOSES.			39 40 47
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			39 40 47 42 43 44 44 44

Checked By DL Date 06/16/08

-7A				and the same of th	Page 2 of 2
	L: Port Arthur, Tx / LA	**************************************	OFFICE: PORT ARTI		09) 727-1035
VESSEL: CCL 20			NSPECTOR(S): T. VI	CIORS	
DATE: 6/16/2008			GS FILE: 103320		
CARGO: Membra			CLIENT: CES Environ		
SGS	ļ	INFORMATION FO	R CLEANLINESS	INSPECTION Oil Gas & Chemica	lls Services Division.
HOSES	SHORE	SHIP	No. 1. The second secon		
MAKE	MATERIAL		LAST	ISED FOR	
HEATING COILS	: Tested Yes/No	FLANGE	D Yes/No	HEATING CAPACITY	(IF CARGO HEATED)
ATERIAL	No No	LANGE	D 169/NO	TIERTING CAPACIT	(II CARGO TICATED)
	No				**************************************
	<u> </u>			<u> </u>	
CLEANIN	G V RECLEANING	i			
TANKS:				***************************************	
1-3C	> EJECTED W/ODOR	NEUTRALIZER			
	*				···
PUMPS:					····
Α					
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pyright SGS-OG&	C 1997 - Rev Oct 2003		Services rendere	ed according to published G	eneral Terms and Conditio
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Date 06/	C 1997 - Rev Oct 2003 By DL (6/02				

=-9	Page 2 of 2
PORT / TERMINAL: Port Arthur, Tx / LA Ash	OFFICE: PORT ARTHUR, TX TEL: (409) 727-1035
VESSEL: CCL 20 VOY #:	INSPECTOR(S): T. VICTORS
DATE: 6/16/2008	SGS FILE: 103320
CARGO: Membrane Caustic	CLIENT: CES Environmental REF:
SGS TANK CLEANL	INESS INSPECTION Oil Gas & Chemicals Services Division.
☐ AT LOADING ☐ AT TRANSFER ☐ AT DISCHARGE	✓ AS INSPECTION ONLY ☐ AS PRE-INSPECTION ☐ WITH CUSTODY TRANSFER
USE A SEPARATE I	FORM F-9 PER INSPECTION
THIS IS THE ☐ FIRST ☑ SECOND	THIRD TH INSPECTION
TANK(S): 1-3C	
BASED ON SUBMITTED INFORMATION (SEE LIRIS	F-7) AND :
_	· · · · · · · · · · · · · · · · · · ·
AND VISUAL INSPECTION	TION DEPONT ON SUST
AND ☐ WALLWASHING (ANALY AND ☐ TESTING OF HEATING CO	1
AND LITESTING OF REATING OF	JILG .
✓ WERE ACCEPTED FOR CLEANLINESS TO CARRY A CA	ARGO OF CAUSTIC MEMBRANE
T WEDE DE POTER FOR OF FAMILIANCO TO CARRY A CA	1000 05
	ARGO OF
REAGON.	
☐ SHIP'S STAFF AND/OR ☐ SGS SUPERVISOR AND/OR	CLIENT NOTIFIED ON BY
☑ INSPECTION COMPLETED AT 10:50 HRS ON THE	6/16/2008
▼ TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING BE	RTH IN CASE OF PRE-INSPECTION
SIGNATURES: ON FILE	TV
FOR VESSEL	FOR TERMINAL INSPECTOR
* IS THIS TANK ACCEPTANCE BASED SOLELY ON SUBMITTED	
IF YES; ISSUE N.O.A.D. AND INFORM YOUR SGS SUPER	VISOR AND/OR L CLIENT(S) IMMEDIATELY.
	MOSPHERE STATEMENT
he undersigned certifies that those tank(s) indicated on lin	
eported on the reverse side of the SGS F-7 and that the tan he undersigned hereby grants permission for SGS person	
Tank Safe Atmosphere Statement signed	hours on
SIGNATURES:	
FOR VESSEL	FOR TERMINAL
PRINT NAME (S):	
	NIV CASE ATMOCRUEDE CTATEMENT is not signed
NOTE: DO NOT ENTER THE TANK(S) if this TA	NIN JAPE A INCOMPREKE 3 LA LEWENT IS NOUSIUNED
NOTE: DO NOT ENTER THE TANK(S) if this TA and contact your super	visor for further instructions.
and contact vour super opyright SGS-OG&C 1995 - Rev Oct 2003	<i>"</i>
, ,	visor for further instructions.

F-4			Page 1 of 1
PORT / TERMINAL: Port Arthur,	Tx / LA Ash	OFFICE: PORT ARTHUR, TX	TEL: (409) 727-1035
VESSEL: CCL 20	VOY#:	INSPECTOR(S):	
DATE: 6/16/2008		SGS FILE: 103320	
CARGO: Membrane Caustic		CLIENT: CES Environmental	REF:

SGS

TIME LOG

	<u>uu_</u>		Off Gas & Chemicals Services Division.
	_ AT LOA	DING AT TRANSFER	AT DISCHARGE
	Y	EAR 2008 / MONTH JAN FEB MAR APR MAY JUN.	JUL AUG SER OCT NOV DEC
Date	Hour		
6/13	13:00	INSPECTOR NOTIFIED - H. BECKCOM	
6/13	14:10	INSPECTOR ARRIVED	
6/13	14:15	COMMENCED BARGE PRE INSPECTION	
6/13	15:00	COMPLETED BARGE PRE INSPECTION - barge visually rejected	- Odor
6/13	15:05	INSPECTOR DEPARTED	
6/16	08:30	INSPECTOR NOTIFIED - T. VICTORS	
6/16	10:10	INSPECTOR ARRIVED	
6/16	10:35	COMMENCED BARGE PRE INSPECTION	
6/16	10:50	COMPLETED BARGE PRE INSPECTION - barge visually accepted	
6/16	11:00	INSPECTOR DEPARTED	
DE	LAYS AND	STOPPAGES:	
TIMES N	MARKED * A	RE SUBMITTED TO US.	TIME LOG PAGE 1 OF

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Checked By DL
Date _06/16/08



To: JENNY RUST SGS REF NO: 105958

CES ENVIRONMENTAL

SUMMARY OF FINDINGS

OPERATION

DISCHARGE FROM THE CCL 20 TO SHORE TANK 606 AT KMTEX, PORT ARTHUR, TX ON 7/10/2008 OF A CARGO DESCRIBED AS SULFURIC CAUSTIC

QUANTITY

		DELIVERED (1)	RECEIVED (2)	DIFFERENCE	PERCENT
TOV	BARRELS	8,500.81	8,384.63	116.18	1.37
	U.S. GALLONS	357,034.00	352,154.36	4,879.64	1.37

- 1. Delivered quantity based on barge figures
- 2. Received quantity based on shore tank(s) TANK 606 3. Arrival: 8,500.81 GSV BBLS
- 4. ROB: 0.00 GSV BBLS

RECAP: Delivered based on "loannis1" after lightering from "Hanyang Grace" @ Korea **QUANTITY**

		DELIVERED (1)	RECEIVED (2)	DIFFERENCE	PERCENT
TOV	BARRELS	8,469.86	8,384.63	85.23	1.01
	U.S. GALLONS	355,734.12	352,154.36	3,579.76	1.01

- 1. Delivered quantity based on Ioannis1 figures @ Korea 5/22/08
- 2. Received quantity based on shore tank 606 3. Arrival: 8,500.81 GSV BBLS
- 4. ROB: 0.00 GSV BBLS

TIME LOG

7/9/2008	14:45	BARGE ARRIVED
	14:50	BARGE DOCKED
	15:15	CARGO HOSE CONNECTED
	18:30	INSPECTOR NOTIFIED
	19:30	INSPECTOR ARRIVED
	20:00	S/T 606 GAUGED OPEN
	20:10	LINE CONDITION VERIFIED OPEN (EMPTY)
	20:20	COMMENCED BARGE PRIOR INSPECTION
	20:50	COMPLETED BARGE PRIOR INSPECTION
	21:12	COMMENCED DISCHARGE
	21:20	COMPLETED CARGO CALCULATIONS
	21:30	INSPECTOR DEPARTED
7/10/2008	02:30	INSPECTOR NOTIFIED
	02:50	COMPLETED DISCHARGE; BARGE STOP
	03:00	INSPECTOR ARRIVED
	03:30	S/T 606 GAUGED CLOSE
	03:50	COMMENCED BARGE FINAL INSPECTION
	04:00	COMPLETED BARGE FINAL INSPECTION

SGS North America Inc.

Oil, Gas & Chemicals Services

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04:05 VERIFIED LINE CONDITION CLOSE (EMPTY)

04:15 CARGO HOSE DISCONNECTED; BARGE RELEASED BY TERMINAL PERSONNEL

04:20 COMPLETED CALCULATIONS

04:30 INSPECTOR DEPARTED

Darren W. Le Blanc Date: 7/11/2008

Shore volume calculated in accordance with:

Vessel volume calculated in accordance with:

Definition of Terms as per MPMS Chapter 1.

Procedures as per applicable MPMS Chapter 3.1a, 7, 8.1 or 8.2, 12.1 or 12.2, 17.1, 17.2, 17.4.

DISCLAIMER

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To: Ms. Jenny Rust SGS REF NO: 101187

CES ENVIRONMENTAL TRIP#

SUMMARY OF FINDINGS

OPERATION

DISCHARGE FROM THE "CCL 20" TO SHORE TANK 607 AT KMTEX, PORT ARTHUR, TX ON 5/30/2008 OF A CARGO DESCRIBED AS SULFIDIC CAUSTIC

QUANTITY (TOV)

	, ,	DELIVERED (1)	RECEIVED (2)	DIFFERENCE	PERCENT
GSV	BARRELS	8,277.55	8,353.07	-75.52	0.90
	U.S. GALLONS POUNDS LONG TONS	347,657.00	350,829.00	-3,172.00	0.90
	METRIC TONS				
	SHORT TONS				

- Delivered quantity based on barge figures
 Received quantity based on shore tank(s) 607
 Arrival: 8,277.55 TOV BBLS
- 4. ROB: 0.00 GSV BBLS

TIME LOG

	~	
5/29/2008	14:10	BARGE DOCKED
	16:00	INSPECTOR NOTIFIED
	16:50	INSPECTOR ARRIVED
	16:55	COMMENCED PREDISCHARGE DECK INSPECTION
	17:20	COMPLETED PREDISCHARGE DECK INSPECTION
	17:55	SHORE TANK 607 GAUGED OPEN
	18:05	INSPECTOR DEPARTED
	19:15	CARGO HOSE CONNECED
	19:45	COMMENCED DISCHARGE
	23:10	INSPECTOR NOTIFIED
5/30/2008	00:10	INSPECTOR ARRIVED
	00:55	COMPLETED DISCHARGE; BARGE STOP
	00:55	COMMENCED BARGE FINAL INSPECTION
	01:10	COMPLETED BARGE FINAL INSPECTION
	01:20	SHORE TANK 607 GAUGED CLOSE
	01:35	CARGO HOSE DISCONNECTED
	01:45	BARGE RELEASED BY TERMINAL
	02:10	INSPECTOR DEPARTED

Darren W. Le Blanc Date: 6/2/2008

SGS North America Inc. Oil, Gas & Chemicals Services

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Member of the SGS Group (Société Générale de Surveillance)



Shore volume calculated in accordance with:

Vessel volume calculated in accordance with:

Definition of Terms as per MPMS Chapter 1.

Procedures as per applicable MPMS Chapter 3.1a, 7, 8.1 or 8.2, 12.1 or 12.2, 17.1, 17.2, 17.4.

DISCLAIMER

DISCLAIMER

This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/terms_and_conditions.htm. The Client's attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. FIRCC REV. January 2007

		·							
COC		SGS OFFICE:	Port Art	hur, Tx					
SGS		SGS FILE #:	101	101187		as & Chemicals S	Services Division.		
OG&C 1	X OF	RDER		⊠ c	ONFIRMATIO	N FORM			
LOADING			RANSFER	NSFER X DISCHARGE			 E		
VESSEL: CCL 20		<u>-</u>		MARISAT #:					
E.T.A.: 05/29/08				AGE	NT:				
PORT / TERMINAL: Port Arthur,	Tx / KMTE	ΞX		AGEN	T'S PHONE:				
CARGO DESCRIPTION: Sulfidic	Caustic								
CARGO QUANTITY: 8 MB									
PLEASES PERFORM FOLLOWING SERVICES AS PER: Pre-sampling> F-4, F-6 FIELD AND LAB SERVICE REPORTS F-1 F-2 F-3A F-4 F-5 F-6 F-10 F-15 F-16									
TO:		DAY TIME	NIGHT TIM	AF I	EMERGENCY	FAX	TELEX		
NAME: Kelli Lofton		713-676-1460	281-785-07			713-676-1676			
NAME: Jenny Rust		713-800-7913	713-367-85	_		7100701070			
NAME:				-					
NAME:									
NAME:				_					
NAME:									
YOUR FINAL REPORT SHOULD TIC WITHOUT ATTACHMEN LCR WITHOUT ATTACHMEN TO: COMPANY NAME:	rs ⊠ ıπs □	MAILED TIC WITH FIELD LCR WITH FIELD S Environmental		RVICE		□ E-MAILED			
CLIENTS REFERENCE: ADDRESS:									
TOWN / STATE / ZIP:									
ATTENTION MR / MRS / MS:		Jenny Rust							
AND MAIL THE INVOICE FOR YO COMPANY NAME:		CES TO: S Environmental	-			 			
CLIENTS REFERENCE: ADDRESS:		0							
TOWN / STATE / ZIP:						 			
ATTENTION MR / MRS / MS:		Jenny Rust	_+			 			
ATTENTION INTO MILE / MO.		oomy mot							
	DATE: _	05/28/08	SIGNAT	TURE:	Darren W. Le	Blanc			

PLEASE ATTACH YOUR QUALITY REQUIREMENTS (TEST DESCRIPTION, TEST METHODS AND SPECIFICATIONS) OR REQUEST THE APPROPRIATE SGS OFFICE TO MAIL/FAX TO YOU THE "LABTEST WORKSHEET" ON WHICH YOU CAN INDICATE YOUR QUALITY REQUIREMENTS.
UNLESS OTHERWISE AGREED, OUR SERVICES ARE CARRIED OUT SUBJECT TO SGS TERMS AND CONDITIONS PRINTED ON THE REVERSE.

FOR ADDITIONAL FIELD / LAB SERVICE REQUESTS, SEE REVERSE.

Copyright © October 1996 by SGS - OG&C

FSM Att. 3.1-1 CSI Order/Confirmation-1

SGS FILE #:	101187	Additional Field / Lab S	Service Re	quests					
CARGO QUAI	NTITY INSTRUCTIONS: Loa	nd Port> shore =	Bl	ols / barge =Bt	روي ۾ ڏاريون جي ن اوي 'عاد				
Calculations -	1.0000 For VCF (gross bbls only)							
	LINE CONDITION BEFORE & AFTER								
NOTIFY DISPA	NOTIFY DISPATCH WITH FIGURES IF OVER 0.5% SHORE TO VESSEL DIFFERENCE and Barge Intransit difference over 0.20%								
CLEANLINES	S INSPECTIONS REQUEST:	Barge must be strip	oed (smal	I puddles ONLY) after dis	charge				
Pre- Sampling	g Instructions: N/A								
	<u></u>								
		LING REQUIRED							
S/TK Open	1Qt Ea. U / M / L - per S/TK, Bar	ge on Arrival -> 1 Qt Rur	nning per ba	irge tank, <u>S/TK Close</u> -> 1Qt E	a. U / M / L - per S/TK				
	 								
OLIALITY REC	QUIREMENTS: PLEASE RE	OUEST THE APPROPRIATE	SGS OFFIC	E TO MAIL/FAX TO YOU THE "L	ARTEST WORKSHEET"				
GOALITTIC		YOU CAN INDICATE YOUR G			ABIESI WORKSHEET				
Not Required									
Tí	You Thin	k Safe: Y	ัดน ้	Will Be Sa	fe!~				
		<u> </u>		***************************************					
*** Inspect	or to sign and date ord	ers prior to perform	ing job						
									
Retain for 30 D	ave								
netain for 30 D		SGS OFFICE INF	ODMA	TION					
SGS Office:	PORT ARTHUR, TX	Phone Number:	409-727		400 707 1946				
Mailing		- ; -			409-727-1846				
Address:	2310 HWY. 69 NORTH NEDERLAND, TX 77627		eet dress:	2310 HWY. 69 NORTH NEDERLAND, TX 77627					
Address.	NEDERLAND, IX 17021	Au	uicss.	NEDERLAND, IX 11021	 _				
Contacts:		Home !	Number	Pager Number	Mobile Number				
Name:	DARREN W. LE BLANC		2-7415	. .	409-749-0776				
Name:									
Name:									
<u> </u>		SGS TERMS AND C	CANDITION	le					

SGS TERMS AND CONDITIONS

IMPORTANT: No person should accept, use or rely upon SGS-OG&C documents or the information contained in them without understanding all of the details of the engagements under which they were it SGS-OG&C conducts inspection, testing, and quantity and quality control services pursuant to agreements with and instructions from its client ("Services"). In the course of performing such Services, SGS develops information ("Information") and generates documents such as reports and certificates ("Documents"). By accepting, using or relying upon such Information or Documents, the client for whom the are performed, and any person who relies upon the information of the Documents, agree to the following terms and conditions.

1. Any use offor reliance upon the Information of the Documents by the clients is conditioned upon the timely payment of all fees. Client will pay late charges of 1.5% per month on all invoices not paid within 30 days, plus collection costs including attorney's fees.

2. SGS-OG&C does not, by performing Services or by issuing Documents, assume, abridge, abrogate or undertake to discharge any duty or responsibility of the client to any person or entity.

3. SGS-OG&C undertakes to perform only the Services agreed upon between SGS-OG&C and its client. Neither the title of a Document or the nature of commodity implies that any particular procedures have been followed or tests performed other than as specified in the Document(s).

4. SGS-OG&C warrants that it will perform the Services agreed upon with its client in a workmanlike manner. SGS-OG&C makes no further warranty of any kind, expressed or implied.

5. Any person accepting, using or relying upon information or Documents agrees in consideration for SGS-OG&C performing the services at the fee charged that the professional liability of SGS-OG&C expressly disclaims liability as an insurer or guarantor. Any client or other person seeking greater protection from loss or damage than is provided for herein should obtain appropriate

- 9. SGS-OG&C hereby objects to any conflicting terms contained in any order or acceptance submitted by client.

 10. All costs associated with compliance with any subpoena(s) for documents, testimony in a court of law, or for any other purpose relating to work performed by SGS-OG&C in connection with work perfor for that client, shall be paid by client. Client shall also pay SGS-OG&C then existing standard fees for consulting, deposition and trial testimony and all expenses related there to. SGS-OG&C 1/1/2000 - Rev Oct 2003

Invoice



Carlsen's Mooring & Marine 4711 Gulf Ave Groves, TX. 77619 office-409/962-5985 fax--409/962-4623

INVOICE # DATE 9/30/'08 2284

PROJECT

BILL TO: CES ENVIROMENTAL SERVICES, INC. SEP 3 0 2008 4904 GRIGGS ROAD. HOUSTON, TEXAS 77021

		•	P.O. NOWIDER	TETTING	FROSECT
			,	Net 30	GOLDEN CHARLOTTI
QUANTITY		DESCRIPTION		RATE	AMOUNT
	SUPPLY A LABOR CREW TO PRIOR TO THE ARRIVAL OF 9/22/2008. (3) MAN LABOR	F THE VESSEL GOLDE		K FACE	
15	LABORERS st			en e	24.00 360.00
					n di Peringan
	SUPPLY MOORING SERVIC ARRIVING TO THE CES ENV 9/22/2008 - 9/23/2008.				
distribution of the second	Mooring Service (IN) 14:30	9/22/2008.	The Property of the Property o		300.00
	Mooring Service (OUT) 05:3	80 9/23/2008.		3	00.00 300.00
: 	Overtime On Mooring Vessels	(OUT).		1	50.00 150.00
	Additional Men On Docking				75.00 450.00
	Boat Scrvices			1	75.00 175.00

It's been a pleasure working with you!

\$1,735.00

JANUARY 2004

MARCH 2004





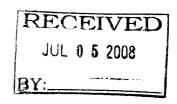
PLEASE REMIT TO: For check payments: PO Box 2227 Carol Stream, IL 60132-2227

For wire transfers: Citibank - New Castle, Delaware Account # 3870-9306 ABA #031100209

INVOICE DATE..... 7/02/2008 INVOICE NUMBER..... 545863

INVOICE

00007269 CES ENVIRONMENTAL SERVICES INC ATTN: ACCOUNTS PAYABLE 4904 GRIGGS RD HOUSTON TX 77021



WKSHT #: 1056365

PO# 373 029

BARGES..... CCL 7 LOCATION..... CITGO PETROLEUM, LAKE CHARLES, LA PRODUCTS........... SULFIDIC CAUSTIC (SPENT) (H2S) STARTED LOADING..... 6/27/2008 1:20 OR UNLOADING: 0:00 5:15 OR UNLOADING: FINISHED LOADING..... 6/27/2008 0:00 HOSE CONNECTED: 6/27/2008 1:00 DISCONNECTED: 6/27/2008 6:15 VAPOR HOSE CONNECTED: O:OO DISCONNECTED: 6/27/2008 0:00 FWD PORT: 7 - 0FWD STB: 7-0 AFT PORT: 7-0 AFT STB: 7-0 MAN ARRIVED: 6/26/2008 23:00 LEFT # 6/27/2008

OTHER INFO:

TOTAL HOURS:

DELAYS: 2300-0100 DOCK DELAY 0515-0615 DOCK DELAY

CHARGES: LOADED BARGE MILEAGE FRESH AIR CHARGES

488.00 59.50 160.19

\$ 707.69

bang pading

NET 30 DAYS



8.00

ID # 13-304139

SGS Petroleum Service Corporation 725 Main St., 70802 • P.O. Box 3517, Baton Rouge LA 70821-3517 • **t** (225) 343-8262 • **f** (225) 383-5431 • www.sgs.com

ORIGINAL COPY



INVOICE

PLEASE REMIT TO: For check payments: PO Box 2227 Carol Stream, IL 60132-2227 For wire transfers: Citibank - New Castle, Delaware Account # 3870-9306 ABA #031100209

INVOICE DATE..... 7/02/2008 INVOICE NUMBER..... 545862

RECEIVE JUL 0 5 2008

00007269 CES ENVIRONMENTAL SERVICES INC ATTN: ACCOUNTS PAYABLE 4904 GRIGGS RD HOUSTEN TX 77021

> WKSHT #: 1055977

PO# 373 029

BARGES: CCL 7 (OBSERVER) CITGO PETROLEUM, LAKE CHARLES, LA LOCATION PRODUCTS....... SULFIDIC CAUSTIC (SPENT) (H2S) STARTED LOADING 0:00 OR UNLOADING: 0:00 FINISHED LOADING 0:00 OR UNLOADING: 0:00 HOSE CONNECTED: 6/26/2008 0:00 DISCONNECTED: 6/26/2008 0:00MAPOR HOSE CONNECTED: 6/26/2008 0:00 DISCONNECTED: 6/26/2008 0:00 FWD PORT: FWD STB: AFT PORT: AFT STB: MAN ARRIVED: 6/25/2008 10:00 LEFT: 6/26/2008 8:15 TOTAL HOURS: 22.25 OTHER INFO: H2S 0 - 10SAFETY OBS. 1 CHANCE SAFETY OBS. 2 SHORETTE

Mappage Manner FRESH AIR CHARGES

CHARGES:

MILEAGE

1ST 8 HOURS @

14.25 HOURS @ 64.05



59.50

422.00

2,00 @

ID # 13-304139

422.00

912.71

119.00

153.91

1,607.62

(2 EMPLOYEES)



PLEASE REMIT TO: For check payments: PO Box 2227 Carol Stream, IL 60132-2227

For wire transfers: Citibank - New Castle, Delaware Account # 3870-9306 ABA #031100209

INVOICE DATE..... 7/02/2008 INVOICE NUMBER.... 545864

INVOICE

00007269 CES ENVIRONMENTAL SERVICES INC ATTN: ACCOUNTS PAYABLE 4904 GRIGGS RD HOUSTON TX 77021

RECEIVED JUL 0 5 2008 BY:

> WKSHT #: 1056366

PO# 373 029

M/Vanananananananana CCL 7 (DBSERVER) CITGO PETROLEUM, LAKE CHARLES, LA PRODUCTS...... SULFIDIC CAUSTIC (SPENT) (H2S) STARTED LOADING O:00 OR UNLOADING: 0:00 FINISHED LOADING..... 0:00 OR UNLOADING: 0:00 FWD PORT: FWD STB: AFT PORT: AFT STB: MAN ARRIVED: 6/26/2008 23:00 LEFT: 6/27/2008 7:00 8.00 TOTAL HOURS: OTHER INFO: HZS 0 - 0CHARGES: 8.00 HOURS 422.00 MILEAGE 59.50 RESPIRATORY AIR EQUIPMENT

Clap Barge CCL 7 Observer

NET 30 DAYS

ID # 13-304139

160.19

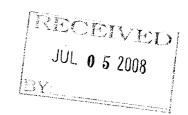
641.69



PLEASE REMIT TO: For check payments: PO Box 2227 Carol Stream, IL 60132-2227

For wire transfers: Citibank · New Castle, Delaware Account # 3870-9306 ABA #031100209

INVOICE DATE 7/02/2008 INVOICE NUMBER..... 545861



INVOICE

00007269 CES ENVIRONMENTAL SERVICES INC ATTN: ACCOUNTS PAYABLE 4904 GRIGGS RD HOUSTON TX 77021

> WKSHT #: 1055874

- PO# 373 029

BARGES...... CCL 7

LOCATION......... CITGO PETROLEUM, LAKE CHARLES, LA

PRODUCTS...... SULFIDIC CAUSTIC (SPENT) (H2S)

STARTED LOADING..... 6/25/2008 20:35 OR UNLOADING: 0:00

FINISHED LOADING..... 6/26/2008 5:50 OR UNLOADING:

0:00

7:30

HOSE CONNECTED: 6/25/2008 19:40 DISCONNECTED: 6/26/2008

VAPOR HOSE CONNECTED: 6/25/2008 0:(DISCONNECTED: 6/26/2008 OsOO

FWD PORT: 5 6

AFT PORT: 6' FWD STB: 5'6

AFT STB: 61

MA', ARRIVED: 6/25/2008 9:45

TOTAL HOURS:

LEFT: 6/26/2008

22.50

OTHER INFO:

IM ARE RELEASED DUE TO INPLANT EMERGENCY PER KELLY/CES TANKERMAN 1 COMEAUX TANKERMAN 2 JONES H2S READINGS RECORDED AT 0 PPM CUSTOMER CREDITED 4 HOURS DUE TO A PLANT CAUSED DELAY.

DELAYS:

1030-1045 WAITING ON THE DOCK TO ADD GANGWAY

1045-1730 INCIDENT ON DOCK. EVACUTAION

1730-1900 WAITING ON DOCK ACCESS

0550-0730 WAITING ON THE DOCK TO DISCONNECT THE HOSE

coll Barge (anherror CHARGES:

1ST 8 HOURS @ 488.00 10.50 HOURS @ 70.65

488.00 741.83

CONTINUED ---

NET 30 DAYS

ID # 13-304139

SGS Petroleum Service Corporation | 725 Main St., 70802 • P.O. Box 3517, Baton Rouge LA 70821-3517 • t (225) 343-8262 • f (225) 383-5431 • www.sgs.com ORIGINAL COPY



For wire transfers: Citibank - New Castle, Delaware Account # 3870-9306 ABA #031100209

INVOICE DATE:.... 7/02/2008
INVOICE NUMBER.... 545861

INVOICE

00007269 CES ENVIRONMENTAL SERVICES INC ATTN: ACCOUNTS PAYABLE 4904 GRIGGS RD HOUSTON TX 77021

WKSHT #: 1055876

PO# 373 029

MILEAGE 2.00 @ 59.50 (2 EMPLOYEES)
RESPIRATORY AIR EQUIPMENT

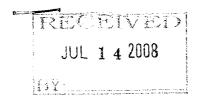
119.00 153.91

\$ 1,502.74

Chem Carriers, LLC

1247 Highway 75 Brookewood Sunshine, LA 70780,

E, LA 70780



Invoice

Date	Invoice #
7/8/2008	7099

Bill To	
CES Environmental Servi 4904 Griggs Road Houston, TX 77021	ces, Inc.

Ship To	
CES Environmental Services, Inc. 4904 Griggs Road Houston, TX 77021	

P.O. No.	Terms	Rep	Ship Date	Ship Via	JOB		Project
	Due Upon Receipt	7	7/8/2008	CCL 7			
Qty	Item		Descriptio	n	Rate		Amount
1	Rebill	REBILL DEV	ALL TOWING IT	NVOICE NO. 146	5228	595.20	595.20
1	Rebill	REBILL DEV	ALL TOWING I	NVOICE NO. 146	5274 1,	041.60	1,041.60
1	Rebill	REBILL DEV	ALL TOWING I	NVOICE NO. 146	5279 1,	,729.80	1,729.80
1	Rebill	REBILL DEV 120924	ALL ENTERPRIS	SES INVOICE NO	D.	455.00	455.00
		COPY OF IN	VOICES ENCLO	SED			
							. . .
City Bacq Cours Towns 1/27-1/3			> 1		7-18-0	08	
Towing 1/3.	08						
					Total		\$3,821.60



DEVALL TOWING & BOAT SERVICE OF HACKBERRY, INC.

P.O. BOX 129 HACKBERRY, LA 70645 PHONE (337) 762-4703 FAX (337) 762-3823 INVOICE NO.

146228

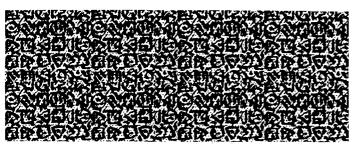
TERMS: NET

CUSTOMER REMIT TO:

P.O. BOX 54220

NEW ORLEANS, LA 70154-4220

WE MONITOR CHANNEL 19 VHF



DATE:
07/04/08
PURCHASE ORDER NO.
Verbal

<u> </u>		a	Page	# 1	
QTY.	BARGE NAME	CODE	DESCRIPTION	RATE	AMOUNT
1.000	CCL 7 (E/R) M/V ALFRED A DEVALLS		DEPART 07/01/08 12:00 DEVALL WEST FLEET ARRIVE 07/01/08 14:30 CITIES SERV C DOCK LOADED RAKE	384.00	384.00
384.000	CCL 7 (E/R) M/V ALFRED A DEVALLE	FUL 00	FUEL SUR CHARGE	0.55	211,20
		i i		7 V ***	
			6050,01		
			6040, 01		
	ASSESSED MANAGEMENT OF THE STATE OF THE STAT				
	0.00		REMARKS:	- 18	
				INVOICE TOTAL	595,20



DEVALL TOWING & BOAT SERVICE OF HACKBERRY, INC. P.O. BOX 129

PHONE (337) 762-4703 FAX (337) 762-3823

INVOICE NO.

146274

TERMS: NET

CUSTOMER REMIT TO:

NEW ORLEANS, LA 70154-4220

P.O. BOX 54220

WE MONITOR CHANNEL 19 VHF

HACKBERRY, LA 70645

DATE: 07/05/08 **PURCHASE ORDER NO.** Verbal

			· · · · · · · · · · · · · · · · · · ·	*	e Boxe & Li Anna (1884 in 1884	
QTY.	B/	ARGE NAME		CODE	DESCRIPTION RATE	AMOUNT
384.000	LİTE BO MV CAPT	OÄT LEROY	(E/R) DEVALO	HS	DEPART 07/02/02 06:30 DEVALL FLEET AMRIVE 07/02/08 07:30 CITIES SERV C DOCK LITE BOAT 0.75	288.00
	CCL 7 MV CAPT	LEROY	DEVAL	H5 05	DEPART 07/02/08 08:00 CITIES SERV C DOCK ARRIVE 07/02/08 09:30 DEVALL WEST FLEET LOADED RAKE 384.00	384.00
672.000	MV CAPT	I EBUA	DEVOLD	15 UL 10 5	FUEL SUR CHARGE 0.55	369,60
		Contract to South 1	10 tm 4 (1 tm sup			
	and an Arthur	S 3 8	€ ** · · · ·		The state of the district of the state of th	
19 (19) (19) (19) (19) (19) (19) (19) (19) (19) (19) (19) (19) (19) (19) (19) (19) (19) (19)						
	·	1 g - 1		: '	6050,01 Mill & 65	
		i de la companya de		. (
			,			
	0.00		<u> </u>		REMARKS:	
					INVOICE	1,041.60



DEVALL TOWING & BOAT SERVICE OF HACKBERRY, INC. P.O. BOX 129 PHONE (337) 762-4703 FAX (337) 762-3823

INVOICE NO.

146279

TERMS: NET

CUSTOMER REMIT TO:

P.O. BOX 54220

NEW ORLEANS, LA 70154-4220

DATE: 07/06/08 **PURCHASE ORDER NO.**

WE MONITOR

			7 % 1 (1/3/2)	WE MONITOR CHANNEL 19 VHF		
QTY.	BARGE NAME	CODE	And the second s	ge # 1 RATE AMOUNT		
1.000	CCL 7 (E/R M/V ALFRED A DEVALL		DEPART 07/03/08 07:00 DEVALL WEST FLEET ARRIVE 07/03/08 16:15 BEAN'S FLEET NRI LOADED RAKE	1116.00 1116.00		
116.000	1 1942 7 1 1		FUEL SUR CHARGE	0.55 613.80		
	M/V ALFRED A DEVALL;	100				
	Production (Company of the State of the Sta		and the second property and the second of th	And the second of the second o		
		:	Marin magain			
			. 1.0 005			
			60%.01 Mill cts			
			in the second of			
	0.00		REMARKS:			
				INVOICE 1,729.80		



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DEVALL ENTERPRISES, INC. P.O. BOX 129

HACKBERRY, LA 70645 FLEET (337) 762-4706 FAX (337) 762-3334

CHEMCA

Chem Carriers

1247 Hwy 75 Brookewood

Sunshine LA 70780

LOG NO: 389003

INVOICE NO.

120924

TERMS: NET

CUSTOMER REMIT TO:

DATE:

07/03/08

P.O. BOX 54211

NEW ORLEANS, LA 70154-4211

PURCHASE ORDER NO.

Verbal

WE MONITOR CHANNEL 19 VHF

QTY.	BARGE NAME	CODE	Page * DESCRIPTION	# i	AMOUNT
4		CODE	Arrive 06/27/08 15:15 - M/V CAPT.LERGY DET Depart 07/01/08 12:00 - M/V AAD 11		EXMOOINT.
5.000	CCL 7 (E/R		Fleeting @ \$65 per day PART LOADED RAKE	65.00	325.00
2.000	CCL 7 (E/R	LIE5	Arrive 07/02/08 09:30 - M/V CAPT.LERGY DE Depart 07/03/08 07:00 - M/V AAD 11 Fleeting @ \$65 per day	ALL 65.00	130.00
			DADED RAKE	65.00	130.00
en i san en sen a general	and the state of t	er og av er dogeter en se se	and the second s	parting and the second	and the second s
				-	
			1 169		
			1200 M. Million 165		
:					
	and the second of the second o		and the second of the second o	en e	e e e e e e e e e e e e e e e e e e e
	:				
		·			
			REMARKS:		
	eredotteredotte Neisconnica Capitalica			INVOICE TOTAL	455.00



PLEASE REMIT TO: For check payments: PO Box 2227 Carol Stream, IL 60132-2227

For wire transfers: Citibank - New Castle, Delaware Account # 3870-9306 ABA #031100209

INVOICE DATE.... 7/11/2008
INVOICE NUMBER.... 546960

INVOICE

00007269 CES ENVIRONMENTAL SERVICES INC ATTN: ACCOUNTS PAYABLE 4904 GRIGGS RD HOUSTON TX 77021



WKSHT #: 1057001

100

PO# 373 029

M/Vавенесвенесвенее

BARGES............. CCL 7

LOCATION......... CITGO PETROLEUM, LAKE CHARLES, LA

PRODUCTS...... SULFIDIC CAUSTIC (SPENT) (H2S)

STARTED LOADING..... 7/01/2008 18:30 OR UNLOADING:

1/2008 23:00 DR UNLDADING: 0:00

FINISHED LOADING..... 7/01/2008 23:00 OR UNLOADING:

7/01/2008 23:45

0:00

VAPOR HOSE CONNECTED: 7/01/2008 0:00 DISCONNECTED: 7/01/2008 0:00

7/01/2008 16:45 DISCONNECTED:

FWD PORT: 9'6"

HOSE CONNECTED:

FWD STB: 9'6" AFT STB: 9'6"

MAN ARRIVED: 7/01/2008 14:30

9'6"

LEFT: 7/02/2008 0:30

TOTAL HOURS:

AFT PORT:

10.00

OTHER INFO:

HES READINGS WERE 00-35 PPM

DELAYS:

1430-1610 WAITING ON THE BARGE ARRIVAL 1645-1830 WAITING ON THE INSPECTOR

CHARGES:

1ST 8 HOURS @ 518.00 2.00 HOURS @ 76.50

MILEAGE

RESPIRATORY AIR EQUIPMENT

518.00 153.00 73.20 153.91

\$ 898.11

NET 30 DAYS

ID # 13-3041390

SGS Petroleum Service Corporation | 725 Main St., 70802 • P.O. Box 3517, Baton Rouge LA 70821-3517 • t (225) 343-8262 • f (225) 383-5431 • www.sgs.com



PLEASE REMIT TO: For check payments: PO Box 2227 Carol Stream, IL 60132-2227

For wire transfers; Citibank - New Castle, Delaware Account # 3870-9306 ABA #031100209

INVOICE DATE..... 7/11/2008 INVOICE NUMBER.... 546961

RECEIVED JUL 1 4 2008

> WKSHT #: 1057306

00007269 CES ENVIRONMENTAL SERVICES INC ATTN: ACCOUNTS PAYABLE 4904 GRIGGS RD HOUSTON TX 77021

PO# 373 029

.... GCL 7 (OBSERVER) CITGO PETROLEUM, LAKE CHARLES, LA PRODUCTS..... SULFIDIC CAUSTIC (SPENT) (H2S) STARTED LOADING..... 0:00 OR UNLOADING: 0:00 FINISHED LOADING..... 0:00 OR UNLOADING: 0:00 FWD PORT: FWD STB: AFT STB: AFT PORT:

MAN ARRIVED: 7/01/2008 14:30 LEFT: 7/02/2008 0:30 TOTAL HOURS: 10.00

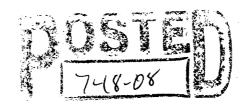
OTHER INFO: H2S READINGS WERE 05-35 PPM

CHARGES: 1ST 8 HOURS @ 456.00 2.00 HOURS @ 69.75 MILEAGE RESPIRATORY AIR EQUIPMENT

456.00 139.50 73.20 153.91

822.61

City Barge CCL'S Observed



NET 30 DAYS

ID # 13-3041390

Chem Carriers, LLC

1247 Highway 75 Brookewood Sunshine, LA 70780

Invoice JUL 1 1 2008

Date	Invoice #		
6/30/2008	7093		

Bill To	Ship To
CES Environmental Services, Inc. 4904 Griggs Road Houston, TX 77021	CES Environmental Services, Inc. 4904 Griggs Road Houston, TX 77021

P.O. No.	Terms	Rep	Ship Date	Ship Via	JOB	Project
	Due Upon Receipt	7	6/30/2008	CCL 7		
Qty	Item		Description	on	Rate	Amount
Color Bo Color Fleeting L/21-23	Rebill S	NO. 80712	VOICE ENCLOS	EERVICE INVOICE	CE 195.0	0 195.00
					Total	\$195.00



INVOICE

DATE	INVOICE#		
6/30/2008	80712		

BILL TO
Chem Carriers LLC 1247 Hwy 75 Brookwood Sunshine, LA 70780

P.O. NO. TERM			JOB				
		net 30		FLEE	TING		
ITEM	DESCRIPTION	l	QUANTITY	UNITS	RATE	AMOUNT	
Fleeting Fleeting Bores Autu	CCL 7 6/21-6/23/08 — CCL 20 6/16-6/23, 6/28-6/30 Sales Tax		3 11	DAYS DAYS	65.00 65.00 8.25%	195.00 715.00 0.00	
:							

DIESEL SALES: DYED DIESEL FUEL, NONTAXABLE USE ONLY, PENALTY FOR TAXABLE USE

A 1% PER MONTH, 12% PER ANNUM FINANCE CHARGE WILL BE ADDED TO ALL ACCOUNTS OVER 30 DAYS PAST DUE

PHONE: (409) 962 8424 FAX: (409) 962 2528

Total	\$910.00
Payments/Credits	\$0.00
Balance Due	\$910.00

Chem Carriers, LLC

1247 Highway 75 Brookewood Sunshine, LA 70780

RECEIVED JUN 2 6 2008 BY:

Invoice

withink

Date Invoice #	
7/1/2008 / 7019	

Bill To

Houston, TX 77021

CES Environmental Services, Inc. 4904 Griggs Road

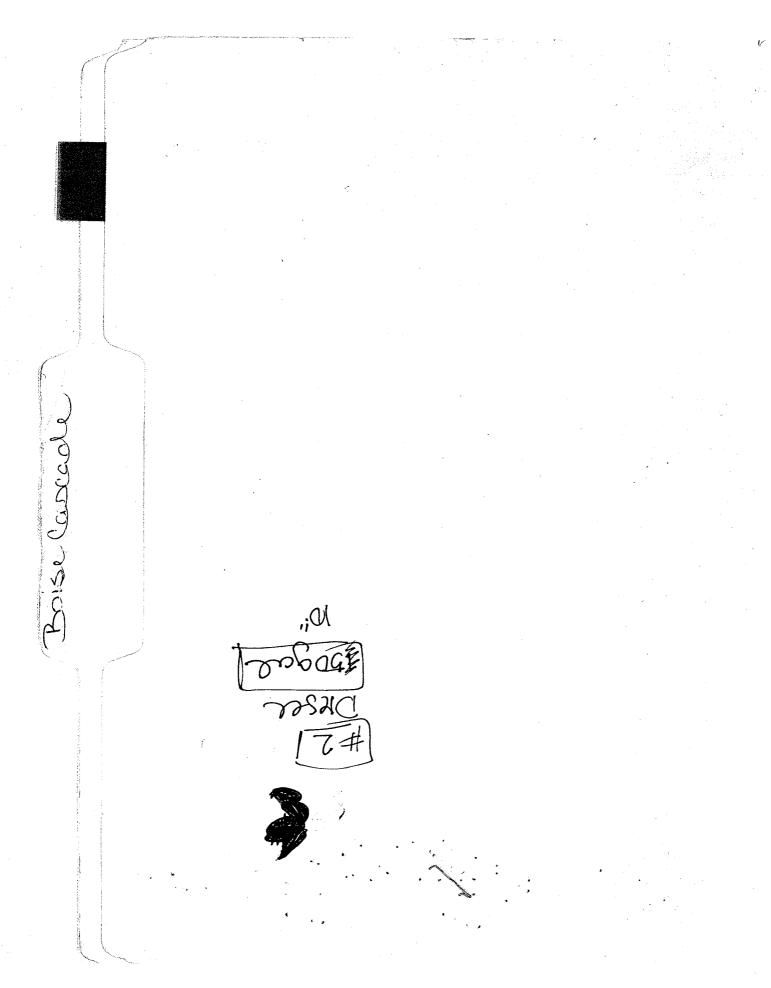
Ship To

CES Environmental Services, Inc.

4904 Griggs Road

Houston, TX 77021

P.O. No. Terms **JOB** Rep Ship Date Ship Via Project Due Upon Receipt 7 7/1/2008 CCL 7 Qty Description Item Rate Amount BARGE CHARTER FOR THE CCL 7 FOR JULY 1,200.00 31 Charter income 37,200.00 2008 Charter income Credit for 11 days -- price change as of 6/20/08 300.00 -3,300.00 City Barge Guly 08 **Total** \$33,900.00



5/1/2



Transportation Accounting List

		•	1010				4772003 3. 10.32 111
Job #	Job Date	Job Status	Customer	Generator	Facility	Search	Notes
78948	01/03/09	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
78947	01/03/09	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
78946	01/03/09	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
78945	01/03/09	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
78944	01/03/09	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
78754	19/80/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	White Liquor Caustic	
78/53	12/80/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	White Liquor Caustic	
78703	01/05/09	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
78702	01/05/09	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	1
78701	01/05/09	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
78700	01/05/09	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	,
78699	01/04/09	Sched-	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
78698	01/04/09	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
78697	01/04/09	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
78696	01/03/09	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
78695	01/03/09	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
78694	01/03/09	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
78693	01/02/09	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
78692	01/02/09	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
78691	01/02/09	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
78690	01/02/09	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
[⋆] 78676	12/31/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
78675	12/31/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
78674	12/31/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
78673	12/31/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	

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78672	12/30/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
78671	12/30/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
78670	12/30/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
78669	12/30/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
78508	12/24/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	targa redirect
78507	12/24/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	targa redirect

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Job #	Job Date	Job Status	Customer	Generator	Facility	Search	Notes
72956	10/06/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
72942	10/06/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
72943	10/07/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
72944	10/08/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
72945	10/09/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
72946	10/10/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
72947	10/11/08	Captap	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
72949	10/06/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
72950	10/07/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
72951	10/08/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	,
72952	10/09/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
73402	10/06/08	Capib	CES Environmental Services, Inc.		Boise Cascade	Spent Sulfidic Caustic	
72954	10/11/08	(3 Syleta	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
72969	10/10/08	SCHA!	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
72957	10/07/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
72958	10/08/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
72959	10/09/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
72960	10/10/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
72961	10/12/08	Sched	CES Environmental Services, Inc.	CES Environmental Services, Inc	. Boise Cascade	Spent Sulfidic Caustic	
72962	10/12/08	Sched	CES Environmental Services, Inc.	CES Environmental Services, Inc	. Boise Cascade	Spent Sulfidic Caustic	
72965	10/06/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
72966	10/07/08	Comp	CES Environmental Services, Inc.		Boise Cascade	Spent Sulfidic Caustic	
	.70	Comp	CES Environmental Services, Inc.	· · · · · · · · · · · · · · · · · · ·	Boise Cascade	Spent Sulfidic Caustic	
				CES Environmental Services @	Boise Cascade	Spent Sur	

10/6/2008 1:44:16 PM

Job #	Job Date	Job Status	Customer	Generator	Facility	Search	Notes
72955	10/05/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
72937	10/04/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
72948	10/05/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
72941	10/05/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	Ł
72938	10/04/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
72932	10/04/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
72 054 —	09/15/08	Can	GES Environmental Services, Inc.	•	. Boise Cascade	Spent Sulfidic Caustic	
72173	09/18/08	Comp (CES Environmental Services, Inc.		. Boise Cascade	Spent Sulfidic Caustic	М
72055	09/15/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc	. Boise Cascade	Spent Sulfidic Caustic	М
71 55 0	09/14/08	Can	CES Environmental Services, Inc.	.CES Environmental Services, Inc	. Boise Cascade	Spent Sulfidic Caustic	3
71549	09/14/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc	. Boise Cascade	Spent Sulfidic Caustic	alma.

Job #	Job Date	Job	Customer	Generator	Facility	Search	Notes
71565	09/08/08	Status NB	CES Environmental Services, Ir	nc. CES Environmental Services @	Boise Cascade	Spent Sulfidic Caustic	
71150	09/07/08	NB	CES Environmental Services, Ir	KMTEX nc. CES Environmental Services, Inc	Boise Cascade	Spent Sulfidic Caustic	М
71151	09/07/08	NB	CES Environmental Services, Ir	nc. CES Environmental Services, Inc	Boise Cascade	Spent Sulfidic Caustic	М ,
71549	09/14/08	Can	CES Environmental Services, Ir	nc. CES Environmental Services, Inc	Boise Cascade	Spent Sulfidic Caustic	
71550	09/14/08	Can	CES Environmental Services, Ir	nc. CES Environmental Services, Inc	Boise Cascade	Spent Sulfidic Caustic	,
71551	09/13/08	Can	CES Environmental Services, Ir	nc. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	· .
71552	09/13/08	Can	CES Environmental Services, In	nc. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	·
71555	09/08/08	NB \	CES Environmental Services, Ir	nc. CES Environmental Services, Inc	Boise Cascade	Spent Sulfidic Caustic	Tank is full couldn't off load. Bill
71556	09/09/08	Sched	CES Environmental Services, Ir	nc. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	for time
71557	09/10/08	NB	CES Environmental Services, In	nc. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	M .
71558	09/1 1/08	Comp	CES Environmental Services, Ir	nc. CES Environmental Services, Inc	Boise Cascade	Spent Sulfidic Caustic	М
71559	09/12/08	Can	CES Environmental Services, In	nc. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
71560	09/08/08	NB	CES Environmental Services, Ir	nc. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	M
71684	09/08/08	NB	CES Environmental Services, In	nc. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	M
71562	09/10/08	NB	CES Environmental Services, In	nc. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
72054	09/15/08] Softmile	CES Environmental Services, In	nc. CES Environmental Services, Inc	Boise Cascade	Spent Sulfidic Caustic —	spola.
71566	09/09/08	Can	CES Environmental Services, In	nc. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	w/Darrin
71567	09/10/08	NB	CES Environmental Services, In	nc. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	M
71568	09/1 1/08	Can	CES Environmental Services, In	nc. CES Environmental Services, Inc	. Boise Cascade	Spent Sulfidic Caustic	
71569	09/12/08	Can	CES Environmental Services, In	nc. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
71570	09/08/08	NB	CES Environmental Services, In	nc. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	M
71571	09/09/08	NB	CES Environmental Services, In	nc. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	M
71572	09/10/08	NB	CES Environmental Services, In	nc. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
71573	09/1 1/08	Can	CES Environmental Services, In	nc. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
71574	09/12/08	Can	CES Environmental Services, In	nc. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	

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71563	09/1 1/08	Can	CES Environmental Services, Inc. CES Environmental Services @ Boise Cascade KMTEX	Spent Sulfidic Caustic	
71564	09/12/08	Can	CES Environmental Services, Inc. CES Environmental Services @ Boise Cascade KMTEX	Spent Sulfidic Caustic	
72055	09/15/08	Comp	CES Environmental Services, Inc. CES Environmental Services, Inc. Boise Cascade	Spent Sulfidic Caustic	М
72173	09/18/08	Comp	CES Environmental Services, Inc. CES Environmental Services, Inc. Boise Cascade	Spent Sulfidic Caustic	M
71561	09/09/08	NB	CES Environmental Services, Inc. CES Environmental Services @ Boise Cascade KMTEX	Spent Sulfidic Caustic	

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Job #	Job Date	Job	Customer	Generator	Facility	Search	Notes
		Status					
71147	09/03/08	Can.	CES Environmental Services, Inc.	. CES Environmental Services, Inc	. Boise Cascade	Spent Sulfidic Caustic	
71097	09/02/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc. (TSDF)	Boise Cascade	Spent Sulfidic Caustic	Bill Sochem \$750 - Boise did no call & Cancel
71121	09/03/08	Can	CES Environmental Services, Inc	. CES Environmental Services, Inc	. Boise Cascade	Spent Sulfidic Caustic	
71137	09/05/08	Comp	CES Environmental Services, Inc.	. CES Environmental Services, Inc	Boise Cascade	Spent Sulfidic Caustic	
71138	09/06/08	Sched	CES Environmental Services, Inc	. CES Environmental Services, Inc	. Boise Cascade	Spent Sulfidic Caustic	,
71140	09/03/08	Gan.	CES Environmental Services, Inc.	.CES Environmental Services, Inc	. Boise Cascade	Spent Sulfidic Caustic	
71141	09/04/08	Can	*CES Environmental Services, Inc	. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
71142	09/05/08	Comp	CES Environmental Services, Inc	. CES Environmental Services, Inc	. Boise Cascade	Spent Sulfidic Caustic	
71096	09/02/08	Comp	CES Environmental Services, Inc	CES Environmental Services Inc	. Boise Cascade	Spent Sulfidic Caustic	Bill Sochem \$750 - Boise did no call & Cancel
71144	09/03/08	Can	CES Environmental Services, Inc	. CES Environmental Services, Inc	Boise Cascade	Spent Sulfidic Caustic	
70661	08/31/08	Can	:CES Environmental Services, Inc	. CES Environmental Services, Inc	. Boise Cascade	Spent Sulfidic Caustic	•
71148	09/04/08	Can	CES Environmental Services, Inc	. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	v.
71149	09/05/08	Sched	CES Environmental Services, Inc	. CES Environmental Services, Inc	. Boise Cascade	Spent Sulfidic Caustic	
71095	09/02/08	Can	CES Environmental Services, Inc	. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	Bill Sochem \$750 - Boise did no call & Cancel
71098	09/02/08	Comp	CES Environmental Services, Inc	25 A 10 A	Boi s e Cascade	Spent Sulfidic Caustic	Bill Sochem \$750 - Boise did no call & Cancel
71136	09/04/08	Carr ™	CES Environmental Services, Inc	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
71145	09/04/08	Can	ČES Environmental Services, Inc	:. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
71146	09/05/08	Comp	CES Environmental Services, Inc	: CES Environmental Services, Inc	c. Boise Cascade	Spent Sulfidic Caustic	
70659	08/31/08	Can	CES Environmental Services, Inc	: CES Environmental Services, Inc	c. Boise Cascade	Spent Sulfidic Caustic	
71143	09/06/08	Comp	CES Environmental Services, Inc	c. CES Environmental Services, Inc	c. Boise Cascade	Spent Sulfidic Caustic	

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Job #	Job Date	Job	Customer	Generator	Facility	Search	Notes
₹7 0680	08/25/08	Status Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
70256	08/24/08	⊂ Can	CES Environmental Services, Inc.		Boise Cascade	Spent Sulfidic Caustic	
70306	08/24/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc	Boise Cascade	Spent Sulfidic Caustic	
70671	08/30/08	Sched	CES Environmental Services, Inc.	CES Environmental Services, Inc	Boise Cascade	Spent Sulfidic Caustic	
70672	08/25/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
70673	08/26/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
70675	08/27/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
7,0676	08/28/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
70678	08/29/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
70679	08/30/68	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
70066	²⁰⁸ /25/08		CES Environmental Services, Inc.	KMTEX	Boise Cascade	Spent Sulfidic Caustic	,
-70255m	08/24/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
7.0668			CES Environmental Services, Inc.	KMTEX		Spent Sulfidic Caustic	
70689	08/30/08		CES Environmental Services, Inc.			Spent Sulfidic Caustic	
7,0681	08/26/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
70682	08/27/08		CES Environmental Services, Inc.	KMTEX	Boise Cascade	Spent Sulfidic Caustic	
70683	Transport of UTC		CES Environmental Services, Inc.			Spent Sulfidic Caustic	
70684	08/29/08		CES Environmental Services, Inc.	KMTEX	Boise Cascade	Spent Sulfidic Caustic	
			CES Environmental Services, Inc.	KMTEX	Boise Cascade	Spent Sulfidic Caustic	
70686	08/26/08		CES Environmental Services, Inc.			Spent Sulfidic Caustic	
70687	08/27/08			KMTEX		Spent Sulfidic Caustic	
70669	A SECTION OF THE SECT		©ES Environmental Services, Inc.	KMTEX	Boise Cascade	Spent Sulfidic Caustic	
	08/29/08			KMTEX	Boise Cascade	Spent Sulfidic Caustic	
70688 70687	08/28/08			KMTEX	Boise Cascade	Spent Sulfidic Caustic	
WADO.	08/26/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc	Boise Cascade	Spent Sulfidic Caustic	

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Job.#	Job Date	Job Status	Customer	Generator	Facility	Search	Notes
70264	08/23/08	Sched	CES Environmental Services, Inc	c. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	unce ppruk
_69766	08/17/08	Comp	CES Environmental Services, Inc	c. CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	1 1
70248	08/18/08	Comp	CES Environmental Services, Inc	c. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
70249	08/19/08	Comp	CES Environmental Services, Inc	c. CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	$\label{eq:def_def} \lambda = \frac{1}{2} \left(\frac{1}{2} $
*,2 7.0250 . *	08/20/08	Comp	CES Environmental Services, Inc	c. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
70251	D8/21/08	Comp	CES Environmental Services, Inc	c. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
70252	08/22/08	Comp	ÇES Environmental Services, Inc	c. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
70253	08/23/08	Comp	CES Environmental Services, Inc	c. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
70259	08/18/08	Comp	CES Environmental Services, Inc	c. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
70260	08/19/08	Comp	CES Environmental Services, Inc	c. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
70261	08/20/08	Comp	CES Environmental Services, Inc	c. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
462765	08/17/08	○ Comp	CES Environmental Services, Inc	c. CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
70263	08/22/08	Comp	CES Environmental Services, Inc	c. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
70308	08/23/08	sched	CES Environmental Services, Inc.	c. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
70266	08/19/08	Comp	CES Environmental Services, In-	c. CES Environmental Services, Inc	Boise Cascade	Spent Sulfidic Caustic	
70267	08/20/08	Çan	CES Environmental Services, In	c. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
-702 68 :_	08/21/08	Comp	CES Environmental Services, In-	c. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
_@ :#0269	08/22/08	Comp	CES Environmental Services, In	c. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
70270	08/18/08	(Can	CES Environmental Services, In	c. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
70271	08/19/08	Comp	CES Environmental Services, Inc	c. CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
A CONTRACTOR	************	Comp	CES Environmental Services, In	c. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
70273	08/21/08	Sched	CES Environmental Services, In	c. CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	where ppurk
70274	08/22/08	Comp	CES Environmental Services, In	c. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic) 1
70305 *	:.08/17/08	COMP	CES Environmental Services, In-	c. CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
30262	08/21/08	Comp	CES Environmental Services, In-	c. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	

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Job #	Job Date	Job Status	Customer	Generator	Facility	Search	Notes
69757-	08/15/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
59741	08/11/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
69743	08/13/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
9746	08/16/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
9747	08/11/08	Gomp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
9748.	08/12/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
9749	08/13/08	Comp	CES Environmental Services, Inc.	. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
9750	··· 08/14/08	Comp	CES Environmental Services, Inc	. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
9751	08/15/08	Comp	CES Environmental Services, Inc	. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
9752	08/16/08	Comp	CES Environmental Services, Inc	. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	• . •
97,58	Q8/11/08	Comp	CES Environmental Services, Inc	. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
9754	08/12/08	Comp	CES Environmental Services, Inc	. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
9742	*	Comp	CES Environmental Services, Inc	. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
9756	08/14/08	Comp	CES:Environmental Services, Inc	. CES Environmental Services @ KMTEX	Eoise Cascade	Spent Sulfidic Caustic	
9095	08/10/08	Gan	CES Environmental Services, Inc	. CES Environmental Services, Inc	c. Boise Cascade	Spent Sulfidic Caustic	
9760	08/13/08	Can	CES Environmental Services, Inc	. CES Environmental Services, Inc	c. Boise Cascade	Spent Sulfidic Caustic	
9761	08/14/08	Comp	CES Environmental Services, Inc	CES Environmental Services, Inc	c. Boise Cascade	Spent Sulfidic Caustic	
9762	08/15/08	Comp	CES Environmental Services, Inc	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
9744	08/14/08	Can	CES Environmental Services, Inc	: CES Environmental Services, Inc	c. Boise Cascade	Spent Sulfidic Caustic	
9745	08/15/08	Comp	CES Environmental Services, Inc	c. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
97/38	DB/14/00	`	CES Environmental Services, Inc	KMTEX	Boise Cascade	Spent Sulfidic Caustic	
59759	08/12/08	Sched	CES Environmental Services, Inc	c. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	where ppruk
0084	Service description (C. C.	Comp	CES Environmental Services, Inc	c. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
/0082®	08/13/08	Comp	CES Environmental Services, Inc	c. CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
0303	08/16/08	Comp	CES Environmental Services, Inc	c. CES Environmental Services, In-	c. Boise Cascade	Spent Sulfidic Caustic	

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69094 08/10/08 Can CES Environmental Services, Inc. CES Environmental Services, Inc. Boise Cascade Spent Sulfidic Caustic 69755 08/13/08 Can CES Environmental Services, Inc. CES Environmental Services, Inc. Boise Cascade Spent Sulfidic Caustic

Job #	Job Date	Job Status	Customer	Generator	Facility	Search		Notes
69075	08/04/08		CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic		
69719	08/07/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic		
69720	08/07/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic		
68735	08/03/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	M	
68736	08/03/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic		
69087	08/07/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic		
69088	08/08/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic		
69089	08/08/08	Can	CES Environmental Services, Inc.		Boise Cascade	Spent Sulfidic Caustic		•
69090	08/08/08	Can	CES Environmental Services, Inc.		Boise Cascade	Spent Sulfidic Caustic		
69091	08/08/08	Can	CES Environmental Services, Inc.		Boise Cascade	Spent Sulfidic Caustic		,
69092	08/09/08	Can	CES Environmental Services, Inc.		Boise Cascade	Spent Sulfidic Caustic		
69072	08/04/08	Comp	CES Environmental Services, Inc.		Boise Cascade	Spent Sulfidic Caustic		
69155	08/03/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	М	**************************************
69074	08/04/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic		· ·
69096	08/04/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic		
69076	08/05/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic		
69077	08/05/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic		•
69078	08/05/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic		
69079	08/05/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic		
69080	08/06/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic		
69081	08/07/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic		
69082	08/06/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic		
69083	08/06/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic		
69084	08/07/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic		
69085	08/07/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic		

69086	08/07/08	Can	CES Environmental Services, Inc. CES Environmental Services, Inc. Boise Cascade	Spent Sulfidic Caustic
69093	08/09/08	Can	CES Environmental Services, Inc. CES Environmental Services @ Boise Cascade KMTEX	Spent Sulfidic Caustic
69073	08/04/08	Comp	CES Environmental Services, Inc. CES Environmental Services, Inc. Boise Cascade	Spent Sulfidic Caustic
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Job #	Job Date	Job Status	Customer	Generator	Facility	Search	Notes
68726	07/31/08		CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
68325	07/27/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	•
68712	07/28/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
68713	07/28/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
68714	07/28/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
68715	07/28/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	•
68716	07/29/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
68717	07/29/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
68718	07/29/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
68719	07/29/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	•
68324	07/27/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
68725	07/31/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	,
68724	07/30/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	, ,
68727	07/31/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	•
68728	07/31/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
68729	08/01/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
68730	08/01/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
68731	08/01/08	Sched	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
68732	08/01/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
68733	08/02/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
68734	08/02/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
68722	07/30/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
68723	07/30/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
68721	07/30/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	

Job #	Job Date	Job Status	Customer	Generator	Facility	Search	Notes
68302	07/23/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
67863	07/20/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
68233	07/21/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
68234	07/21/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
68235	07/21/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
68236	07/21/08	Can	CES Environmental Services,	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
₹ 68578	07/22/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	• •
68296	07/22/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
68297	07/22/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
68298	07/22/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
68299	07/22/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	÷
667862	207/20/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	•
68301	07/23/08	"Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
€68313	07/26/08	- Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
68303	07/23/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
68304	07/24/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
€68 305	07/24/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
.68306	07/24/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
€ [*] 68307	07/24/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
68308	© 07/25/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
68309	07/25/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	Tank at DeRidder Full
68310	07/25/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
∠6831 .1	. 07/25/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
68312	07/26/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
68300	07/23/08 ੂੰ	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	

Job #	Job Date	Job Status	Customer	Generator	Facility	Search	Notes
67859	07/18/08	Comp	CES Environmental Services, Inc.	CES Environmental Services,	Boise Cascade	Spent Sulfidic Caustic	1
67764	07/14/08	Comp		CES Environmental Services,	Boise Cascade	Spent Sulfidic Caustic	
67762	07/14/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
67765	07/14/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
67843	07/15/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
67847	07/15/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
67848	07/16/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
67849	07/16/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	•
67850	07/16/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
67853	07/17/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	N
67854	07/17/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	•
67763	07/14/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	, , , , , , , , , , , , , , , , , , ,
67858	07/18/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	· ·
67676	07/13/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
67860	07/19/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	,
67861	07/19/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
67845	07/15/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
67846	07/15/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	printed py
67851	07/16/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	- Principy
67852	07/17/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	here nk P#
67914	07/14/08	Sched	CES Environmental Services,	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	PPCC 100
67855	07/17/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
67856	07/18/08	?	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	67886
67675	07/13/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	67886 only 12
€78 } X	07/18/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	

Job #	Job Date	Job Status	Customer	Generator	Facility	Search	Notes
67450	07/10/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
66965	07/06/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
67440	07/08/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
67441	07/08/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
67442	07/08/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
67443	07/08/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
67444	07/09/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	,
67445	07/09/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
67446	07/09/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	,
67447	07/09/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
66964	07/06/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	•
67449	07/10/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	, , ,
67272	07/07/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	O. January
67451	07/10/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	Cannot locate puperwork. Release # Printed Job
67452	07/11/08	Sched	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	papero of.
67455	07/11/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	Kelluse #
67456	07/12/08	Can	CES Environmental Services, Inc.	CES Environmental Services; Inc.	Boise Cascade	Spent Sulfidic Caustic	Displed Top
67457	07/12/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	Frinto and
67453	07/11/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
67454	07/11/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
67269	07/07/08	(NB)	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
67270	07/07/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
67271	07/07/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
67448	07/10/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	•

Job #	Job Date	Job Status	Customer	Generator	Facility	Search	Notes
66953	07/01/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
66435	06/29/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
66436	06/29/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
66919	06/30/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
66920	06/30/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
66921	06/30/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	•
66922	06/30/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
66963	07/05/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
66950	07/01/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
67322	07/05/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	•
66952	07/01/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
66962	07/05/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
66954	07/02/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
66955	07/02/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	_ •
66956	07/02/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	•
66957	07/02/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
66958	07/03/08	Sched	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
66959	07/03/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
66960	07/03/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
66961	07/03/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
66951	07/01/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	

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Job #	Job Date	Job Status	Customer	Generator	Facility	Search	Notes
66422	06/25/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
66036	06/22/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
66043	06/22/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic Q	eve 102419
66592	06/24/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
66405	06/23/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
66406	06/23/08	Comp	Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	66592
66407	06/23/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	not
66408	06/23/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	nue beton Access
66404	06/23/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	- but on
66409	06/24/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	Access
66410	06/24/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	way
66411	06/24/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	•
66027	06/22/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
66421	06/25/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
66434	06/28/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	*
66423	06/25/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
66424	06/25/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
66425	06/26/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	•
66426	06/26/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
66427	06/26/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
66428	06/26/08	Comp	Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
66429	06/27/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
66430	06/27/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
66431	06/27/08 ·	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
66432	06/28/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	

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Job #	Job Date	Job Status	Customer	Generator	Facility	Search	Notes
65609	06/12/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
65161	06/08/08	Sched	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
65162	06/08/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
65624	06/13/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
65625	06/14/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	•
65599	06/09/08	Sched	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	*
65600	06/10/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	().: :
65601	06/1 1/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	Ĵ.
65602	06/12/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	. · ·
65603	06/13/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	RE
65604	06/14/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	5. 65
65606	06/09/08	Sched	CES Environmental Services,	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	5) Ces
65160	06/08/08/	Sched	DES Environmental Services,	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	Baypar
65608	06/11/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	Day
65623	06/12/08		CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	Par
65610	06/13/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
65611	06/14/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
65613	06/09/08	Sched	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	RCA
65614	06/10/08		CES Environmental Services,	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	NI DO
65615	06/1 1/08	Sched	ChS Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	K# 102419
65616	06/12/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	CVI+ Cour
65617	06/13/08		CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	CAT VOA
65618	06/14/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	CXI+ GUE CXI+ GUE CIWOUL
65620	06/09/08	445	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	amoun
65621	06/10/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	

65622	06/11/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic
65607	06/10/08	Comp	CES Environmental Services,	CES Environmental Services,	Boise Cascade	Spent Sulfidic Caustic

Inc.

Inc.

Job Date Job Customer Search Notes Job# Generator Facility Status Spent Sulfidic Caustic 06/20/08 Comp CES Environmental Services, CES Environmental Services, Boise Cascade 66041 66022 Comp CES Environmental Services, CES Environmental Services, Boise Cascade Spent Sulfidic Caustic 06/17/08 Comp CES Environmental Services, CES Environmental Services, Spent Sulfidic Caustic 66023 06/18/08 Boise Cascade Inc. Comp CES Environmental Services, CES Environmental Services, Boise Cascade Spent Sulfidic Caustic 66024 06/19/08 Inc. 66025 06/20/08 Comp CES Environmental Services. CES Environmental Services. Boise Cascade Spent Sulfidic Caustic Inc. Inc. CES Environmental Services. CES Environmental Services. 66026 06/21/08 Boise Cascade Spent Sulfidic Caustic Inc. Inc. 66028 06/16/08 Comp CES Environmental Services. CES Environmental Services. Spent Sulfidic Caustic Boise Cascade Inc. Inc. 66033 06/19/08 CES Environmental Services, CES Environmental Services, Spent Sulfidic Caustic Can Boise Cascade Inc Inc. CES Environmental Services, CES Environmental Services, 66034 06/20/08 Comp Boise Cascade Spent Sulfidic Caustic Inc. CES Environmental Services, CES Environmental Services, 66035 06/21/08 Can Boise Cascade Spent Sulfidic Caustic Inc. 66037 06/15/08 Comp CES Environmental Services, CES Environmental Services. Boise Cascade Spent Sulfidic Caustic Comp CES Environmental Services, CES Environmental Services, 66038 06/17/08 Boise Cascade Spent Sulfidic Caustic Inc. 66021 06/16/08 Comp CES Environmental Services. CES Environmental Services. Boise Cascade Spent Sulfidic Caustic Inc. Comp CES Environmental Services. 66040 CES Environmental Services, Spent Sulfidic Caustic 06/19/08 Boise Cascade Inc. 06/15/08 Comp CES Environmental Services, CES Environmental Services, Spent Sulfidic Caustic 65619 Boise Cascade 66042 06/21/08 Comp CES Environmental Services, CES Environmental Services, Boise Cascade Spent Sulfidic Caustic Inc. Off Loaded at Port Arthur 66044 06/16/08 CES Environmental Services. CES Environmental Services, Boise Cascade Spent Sulfidic Caustic Can Inc. Inc. CES Environmental Services, CES Environmental Services, 66045 06/17/08 Comp Boise Cascade Spent Sulfidic Caustic Inc. Inc. 66046 Comp CES Environmental Services. CES Environmental Services. 06/18/08 Boise Cascade Spent Sulfidic Caustic Inc. 66047 06/19/08 Comp CES Environmental Services. CES Environmental Services. Boise Cascade Spent Sulfidic Caustic Inc. Inc. 66031 06/17/08 Comp CES Environmental Services, CES Environmental Services, Boise Cascade Spent Sulfidic Caustic Inc. Inc. Did not unload DeRidder tanks 66032 06/18/08 Can CES Environmental Services. CES Environmental Services, Boise Cascade Spent Sulfidic Caustic full - Came back to yard. Inc. 66048 Comp CES Environmental Services. CES Environmental Services. 06/20/08 **Boise Cascade** Spent Sulfidic Caustic 66049 06/21/08 Comp CES Environmental Services, CES Environmental Services, Boise Cascade Spent Sulfidic Caustic Inc. 65626 06/16/08 Comp CES Environmental Services, CES Environmental Services, Boise Cascade Spent Sulfidic Caustic

65605	06/15/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
65612	06/15/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
66039	06/18/08	Comp	CES Environmental Services,	CES Environmental Services,	Boise Cascade	Spent Sulfidic Caustic	

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Transportation Accounting List

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Job #	Job Date	Job	Customor	Companie	Faitte		
JOD #	Job Date	Status	Customer	Generator	Facility	Search	Notes
65150	06/06/08	Sched	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
64798	06/01/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
64799	06/01/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
64800	06/01/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
65134	06/02/08	Sched	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
65135	06/02/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
65138	06/03/08	Sched	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	•
65139	06/03/08	Sched	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
65140	06/03/08	Sched	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
65141	06/03/08	Sched	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	•
65142	06/04/08	Sched	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
65143	06/04/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
65144	06/04/08	Sched	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
64797	·06/01/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	•
65146	06/05/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	•
65149	06/05/08	Sched	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
65151	06/06/08	Sched	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
65152	06/06/08	Sched	CES Environmental Services, Inc.	CES Environmental Services,	Boise Cascade	Spent Sulfidic Caustic	
65153	06/06/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
65154	06/07/08	Sched	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
65155	06/07/08	Sched	CES Environmental Services,	CES Environmental Services,	Boise Cascade	Spent Sulfidic Caustic	•
65158	06/07/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
65159	06/07/08	Sched	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
65364	06/04/08	Sched	CES Environmental Services,	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	see inbound
65365	06/05/08	Sched	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	

65136	06/02/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic
65137	06/02/08	Sched	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic
65148	06/05/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic
65145	06/04/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic

Job #	Job Date	Job Status	Customer	Generator	Facility	Search	Notes
64786	05/30/08	1	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
64771	05/26/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
64772	05/26/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
64773	05/26/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	-
64776	05/27/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	A 2
64777	05/27/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
64778	05/28/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
64779	05/28/08	·	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
64780	05/28/08		CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
64781	05/28/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	•
64782	05/29/08	·	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
64783	05/29/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
64770	05/26/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	0
64785	05/29/08	_Comp	CES Environmental Services,	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	(6)
64456	05/25/08	Sched	CE Environmental Services,	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
64789	05/30/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	• •
64790	05/30/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
64791	05/30/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
64774	05/27/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	•
64775	05/27/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
64793	05/31/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	Q
64794	05/31/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	64828
64795	05/31/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
64796	05/31/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
64453	05/25/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	

64454	05/25/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
64455	05/25/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
64784	05/29/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	

Job #	Job Date	Job Status	Customer	Generator	Facility	Search		Notes
64438	05/21/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic		
63985	05/18/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic		
63986	05/18/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic		
63988	05/18/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic		
64608	05/21/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic		
64515	05/19/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	М	
64429	05/19/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic		:
64430	05/19/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic		
64431	05/19/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic		
64432	05/19/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic		
64433	05/20/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	М	
64434	05/20/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	М	
64435	05/20/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	М	
63984	05/18/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic		* -
64437	05/21/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic		•
64452	05/24/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic		. ,
64439	05/21/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic		
64440	05/21/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic		
64441	05/22/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic		•
64442	05/22/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic		
64443	05/22/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic		
64444	05/22/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic		
64445	05/24/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic		
64446	05/23/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic		
64447	05/23/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic		

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64448	05/23/08	Can	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
64449	05/24/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
64450	05/24/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
64451	05/24/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	
64436	05/20/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Boise Cascade	Spent Sulfidic Caustic	M

Job #	Job Date	Job Status	Customer	Generator	Facility	Search	Notes
79330	01/09/09		CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	White Liquor Caustic	had to turn driver around to issue white liquer paper work and instruct
79329	01/09/09	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	White Liquor Caustic	waited on operator to sign paper
79226	01/09/09	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	lissing
79225	01/08/09	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	unit liquor
79223	01/08/09		CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
78899	01/07/09		CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
78894	01/1 1/09	•	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
78892	01/1 1/09		CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
78891	01/10/09		CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	waited on loader to load loader showed up.
78890	01/10/09	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	operator was late to work. Driver was scheduled to begin loading at 07:00.
78889	01/10/09	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	customer cancelled load due to not enough room in tanks.
78888	01/09/09	Coxy	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
78887	01/09/09	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
78886	01/09/09	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
78885	01/09/09	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
78884	01/08/09	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	·
78883	01/08/09	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	τ
78882	01/08/09	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
78881	01/08/09	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
78880	01/07/09	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
78879	01/07/09	·	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
78878	01/07/09		CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
78877	01/07/09	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
78876 +	01/06/09	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
78875	01/06/09	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	

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78874	01/06/09	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic
78873	01/06/09	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic

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Page 1 Of 1 12/12-12/23

Job #	Job Date	Job Status	Customer	Generator	Facility	Search	Notes
77343	12/12/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
78390	12/22/08	Sched- PA	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	load did not pass QC will off load into unit
78391	12/22/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
78275	12/18/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
78131	12/17/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	delayed due to customer wanting last contained
78290	12/19/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
78291	12/19/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
77869	12/12/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
78289	12/19/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
77363	12/14/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
77348	12/12/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
77353	12/12/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
77356	12/12/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
77357	12/13/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
77358	12/14/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
77362	12/13/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
78292	12/19/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	Delayed due to QC in lab @PACES

				10/-1				12/11/2006 9.33.28 AM
	Job #	Job Date	Job Status	Customer	Generator	Facility	Search	Notes
-	76960	12/01/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	1200
	76972	12/03/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
	76971	12/02/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	Will Harm
	76970	12/01/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	wittdigur
	76969	12/05/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	CXI
	76968	12/04/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
	76967	12/03/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
	76966	12/02/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	77350
	76965	12/01/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	not onlist
	76964	12/05/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	not onlist
	76963	12/04/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	O
	77674	12/10/08	School-	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	and the second s
	76961	12/02/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	missing
	76975	12/01/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	White Liquor Caustic	77112
	76959	12/07/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	1140
	76958	12/06/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	7/1/8
	76957	12/07/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	(pentemuil)
	76956	12/06/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	1 nentemal
	76955	12/05/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
	76954	12/04/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
	76953	12/03/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
	76952	12/02/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
		12/01/08		CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
				Truironmental Services -	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
					CFS Environmental Services -	Boise Cascade	Spent Sulfidic Caustic	

76962	12/03/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sultique	
77345	12/09/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	•
77414	12/08/08	Can COM	CES Environmental Services -	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
77367	12/10/08	Sched-	ES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	,
77366	12/09/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	White Liquor Caustic	
77365	12/10/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	White Liquor Caustic	
77361	12/09/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	targa cbf redirect
77360	12/08/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
77355	12/11/08	Sched- FA	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	cancelled due to snow/ice on bridges and roads
77354	12/10/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
77352	12/11/08	Schled PA	CES Environmental Services -	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	cancelled due to ice/snow on bridges and roads
77351	12/10/08	Sched- PA	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
77349	12/08/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
76973	12/04/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	targa redirect (cbf)
77346	12/10/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
76974	12/05/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
77344	12/08/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
77342	12/11/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
77341	12/10/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
77340	12/09/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
77339	12/08/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
77216	12/05/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	White Liquor Caustic	1.5 delay getting in the plant security @ rec gate.
77214	12/05/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	White Liquor Caustic	
76991	12/06/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
76977	12/01/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	White Liquor Caustic	
76976	12/02/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	White Liquor Caustic	
77438	12/08/08	Sched- PA	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
77347	12/11/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	

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Job #	Job Date	Job Status	Customer	Generator	Facility	Search	Notes
76454	11/25/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	arkema redirect
76432	11/25/08	Comp	GES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	(Prototo)
76433	11/26/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	2002 ()
76434	11/28/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
76435	11/2 4/ 08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
76436	11/25/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	massing
76437	11/26/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	Total
76438	11/28/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	W. The Control of the
76439	11/29/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	De 196
76440	11/30/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	0/1/
76441	11/29/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	White Liquor Caustic	OFT
76431	11/24/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
76443	11/30/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
76453	11/24/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
76455	11/25/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	Configuration co
76456	11/26/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	' 0
76457	11/26/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
76458	11/28/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
76459	11/28/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
76460	11/29/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
76447	11/28/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
76448	11/24/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
76451	11/28/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
76452	11/24/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
76442	11/29/08	_	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
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Job #	Job Date	Job Status	Customer	Generator	Facility	Search	Notes
- 76009	11/18/08	Comp	GES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
76174	11/18/08	Cçmp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
76030	11/19/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	Liauor
76029	11/19/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
76028	11/18/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
76027	11/18/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
76026	11/17/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
76025	11/17/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	77502
76023	11/20/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	7-15
76018	11/20/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	15513
76014	11/23/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	anxidRuar
76013	11/22/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	With Inte
76012	11/21/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	War 1015
, 76032	11/20/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	targa cbf redirect
76010	11/19/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
76033	11/21/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
76008	11/17/08	•	Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
76007	11/21/08	11	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
76006	11/20/08	\$ched- RA	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
76005	11/19/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
76004	11/18/08	•	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
76003	11/17/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
76377	11/21/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
76375	11/21/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
75964	11/14/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	

75963	11/ 1 4/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
75848	11/13/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
75847	11/13/08 -	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
76175	11/18/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
76011	11/20/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
76090	11/17/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
75502	11/15/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
75495	11/14/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
75527	11/14/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
75526	11/14/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
75525	11/13/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
75524	11/13/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
75523	11/12/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
75522	11/12/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
75517	11/16/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
75516	11/15/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
75515	11/16/08	Sched- PA	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
75514	11/15/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
76031	11/20/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
75506	11/12/08	NB	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	M
75503	11/16/08	Sched- PA	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
75501	11/14/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
75500	11/13/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
75499	11/12/08	NB	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	M
76265	11/20/08		CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	White Liquor Caustic	
76091	11/17/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
76264	11/20/08	В	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	White Liquor Caustic	
76263	11/19/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	White Liquor Caustic	

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75494	11/13/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
75493	11/12/08	NB	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	M
76038	11/22/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	targa cbf redirect
76037	11/23/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
76036	11/22/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
7603 <u>4</u>	11/21/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
75511	11/12/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	

		ate-	Job	Customer	Generator	Facility	Search	Notes
	•	1/11/08	Status	CES Environmental Services -	OFC Facinos and Consider	Daine Occasion		
~		- 1/1 1/08	,	Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
7.5	× /·	11/05/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
7.5	5664	11/11/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
75	5534	11/09/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
75	5533	11/08/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
. 75	5504	11/10/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	cul all
75	5497	11/10/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	CKI
75	5491	11/10/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	CXI all Still Schedule No pprull To x Sppor
75	5404	11/07/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	30//000
75	75535 11/09	11/07/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	in a portial
75		11/09/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	to pp
75	5523	11/12/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	7001
75	5009	11/06/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	Spr
75	5521	11/11/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
75	5010	11/06/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
75	5519	11/10/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
75	5518	11/10/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
V 75	5511	11/12/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
75	5509	11/10/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
75	5506	11/12/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
75	5499	11/12/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
75	5493	11/12/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
75	5492	11/11/08	Comp	CES Environmental Services -	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
75	5336	11/05/08	(edis	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
75	5332	11/06/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	

			⊅omp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic
	· ·		Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic
		.2/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic
**		11/09/08	Can ,	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic
	751∖. ∕	11/04/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic
/	75144	11/04/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic
	75021	11/08/08	Sched- PA	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic
	75020	11/07/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic
	75008	11/05/08	SIM	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic
	75016	11/03/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic
	74999	11/03/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic
	75014	11/09/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic
٠	75013	11/08/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic
	75012	11/07/08	Sched- PA	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic
	75007	11/05/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic
	75006	11/04/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic
	75005	11/04/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic
	75004	11/08/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic
	75002	11/06/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic
	75001	11/05/08	Can	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic
	75011	11/07/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic
	75017	11/04/08	Comp	CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic
	75000	11/04/08		CES Environmental Services - Port Arthur	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic
	75038	11/03/08		CES Environmental Services, Inc	Port Arthur	Boise Cascade	Spent Sulfidic Caustic
	74484	10/31/08	PA	CES Environmental Services, Inc	Port Arthur	Boise Cascade	Spent Sulfidic Caustic
	74483	10/31/08	PA	CES Environmental Services, Inc	Port Arthur	Boise Cascade	Spent Sulfidic Caustic
	74465	10/31/08	PA	CES Environmental Services, Inc	Port Arthur	Boise Cascade	Spent Sulfidic Caustic
	74497	11/01/08	NB %	CES Environmental Services, Inc	c. CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic

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75141	11/02/08	Comp	CES Environmental Services, Inc.	. CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic
75047	10/31/08	Comp	CES Environmental Services, Inc.	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic
75043	10/31/08	Comp	ČES Environmental Services, Inc.	. CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic M
75039	11/03/08	Comp	CES Environmental Services, Inc.	. CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic
75037	11/01/08 .	Comp	CES Environmental Services, Inc.	. CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic
75036	11/01/08	Comp	CES Environmental Services, Inc.	. CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic
74862	10/31/08	Sched- PA	CES Environmental Services, Inc.	. CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic
75042	10/31/08	New	CES Environmental Services, Inc.	. CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic

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Job #	Job Date	Job Status	Customer	Generator	Facility	Search	Notes
74754	10/29/08	Comp	CES Environmental Services, Inc.	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
74023	10/24/08	B	CES Environmental Services, Inc.	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	M
74024	10/25/08	В	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	M
74028	10/23/08	В	CES Environmental Services, Inc.	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	M
74029	10/24/08	В	CES Environmental Services, Inc.	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	M
74030	10/25/08	Comp	CES Environmental Services, Inc.	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
74034	10/23/08	В	CES Environmental Services, Inc.	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	М
74035	10/24/08	В	CES Environmental Services, Inc.	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	M
74040	10/23/08	В	CES Environmental Services, Inc.	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	M
74041	10/24/08	В	CES Environmental Services, Inc.	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	M
74042	10/26/08	В	CES Environmental Services, Inc.	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	M
74043	10/26/08	В	CES Environmental Services, Inc.	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	M
74044	10/25/08	В	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	M
74022	10/23/08	В	CES Environmental Services, Inc.	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	M
74722	10/28/08	Comp	CES Environmental Services, Inc.	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
74482	10/30/08	Comp	CES Environmental Services, Inc.	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
74821	10/30/08	Comp	CES Environmental Services, Inc.	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
74822	10/30/08	Comp	CES Environmental Services, Inc.	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
74461	10/27/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
74467	10/27/08	Comp	CES Environmental Services, Inc.	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
74469	10/29/08	Comp	CES Environmental Services, Inc.	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
74477	10/29/08	Comp	CES Environmental Services, Inc.	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	
74478	10/29/08	Comp	CES Environmental Services, Inc.	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	M
74475	10/27/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic	
74476	10/27/08	Comp	CES Environmental Services, Inc.	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic	

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74479	10/28/08	Comp	CES Environmental Services, Inc.	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic
74480	10/28/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Boise Cascade	Spent Sulfidic Caustic
74481	10/30/08	Comp	CES Environmental Services, Inc.	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic
74721	10/28/08	Comp	CES Environmental Services, Inc.	CES Environmental Services - Port Arthur	Boise Cascade	Spent Sulfidic Caustic

Page 1 Of 2

Transportation Accounting List

RO, UN, Plan, 3 PGT. Job # Job Date Job Customer Generator **Facility** Status 73605 10/14/08 Comp CES Environmental Services, Inc. CES Environmental Services @ М Spent Sulfidic Caustic **KMTEX** 74185 10/19/08 Comp CES Environmental Services, Inc. CES Environmental Services @ Boise Cascade Spent Sulfidic Caustic **KMTEX** 73623 10/16/08 Comp CES Environmental Services, Inc. CES Environmental Services @ Boise Cascade М Spent Sulfidic Caustic **KMTEX** 73622 10/15/08 Comp CES Environmental Services, Inc. CES Environmental Services @ Boise Cascade Spent Sulfidic Caustic М **KMTEX** 73619 10/18/08 Sched CES Environmental Services, Inc. CES Environmental Services @ Boise Cascade Spent Sulfidic Caustic **KMTEX** 73618 Sched CES Environmental Services, Inc. CES Environmental Services @ 10/19/08 Spent Sulfidic Caustic **KMTEX** 73617 10/13/08 Comp CES Environmental Services, Inc. CES Environmental Services @ Boise Cascade Spent Sulfidic Caustic Mussing large stak **KMTEX** 73616 Comp CES Environmental Services, Inc. CES Environmental Services @ 10/14/08 Boise Cascade Spent Sulfidic Caustic **KMTEX** 73613 10/17/08 CES Environmental Services, Inc. CES Environmental Services @ Boise Cascade Spent Sulfidic Caustic **KMTEX** 73625 10/13/08 CES Environmental Services, Inc. CES Environmental Services @ Boise Cascade Spent Sulfidic Caustic KMTEX 73607 10/13/08 CES Environmental Services, Inc. CES Environmental Services @ Boise Cascade Spent Sulfidic Caustic **KMTEX** 73626 10/14/08 Comp CES Environmental Services, Inc. CES Environmental Services @ Boise Cascade Spent Sulfidic Caustic М **KMTEX** 73603 10/15/08 Comp CES Environmental Services, Inc. CES Environmental Services @ Spent Sulfidic Caustic **KMTEX** 73601 10/16/08 Comp CES Environmental Services, Inc. CES Environmental Services @ Boise Cascade Spent Sulfidic Caustic **KMTEX** 73599 10/17/08 Comp CES Environmental Services, Inc. CES Environmental Services @ Spent Sulfidic Caustic **KMTEX** 73597 10/18/08 CES Environmental Services, Inc. CES Environmental Services @ Boise Cascade Spent Sulfidic Caustic 10/19/08 73596 CES Environmental Services, Inc. CES Environmental Services, Inc. Boise Cascade Spent Sulfidic Caustic 73590 10/19/08 CES Environmental Services, Inc. CES Environmental Services, Inc. Boise Cascade Spent Sulfidic Caustic 73621 10/14/08 CES Environmental Services, Inc. CES Environmental Services @ Boise Cascade Spent Sulfidic Caustic KMTEX 73620 10/13/08 CES Environmental Services, Inc. CES Environmental Services @ Boise Cascade Spent Sulfidic Caustic **KMTEX** 73609 10/18/08 CES Environmental Services, Inc. CES Environmental Services @ Boise Cascade Spent Sulfidic Caustic **KMTEX** Sched- CES Environmental Services, Inc. CES Environmental Services -74021 10/22/08 Boise Cascade Spent Sulfidic Caustic Port Arthur 72961 10/13/08 Comp CES Environmental Services, Inc. CES Environmental Services, Inc. Boise Cascade М Spent Sulfidic Caustic 74039 10/22/08 CES Environmental Services, Inc. CES Environmental Services -Boise Cascade Spent Sulfidic Caustic PΑ Port Arthur 74038 10/21/08 Sched- CES Environmental Services, Inc. CES Environmental Services -Boise Cascade Spent Sulfidic Caustic

Port Arthur

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	74037	10/20/08	Sched- PA	CES Environment	al Services,		CES Environmental Services - Port Arthur	Boise	Cascade	Spent Sulfidic Caustic	
	74033	10/22/08	Sched- PA	CES Environment	tal Services,		CES Environmental Services - Port Arthur	Boise	Cascade	Spent Sulfidic Caustic	
	74032	10/21/08	Sched- PA	CES Environmen	tal Services,		CES Environmental Services - Port Arthur	Boise	Cascade	Spent Sulfidic Caustic	
	74031	10/20/08	Sched [*]	CES Environmen	tal Services,		CES Environmental Services @ KMTEX	Boise	Cascade	Spent Sulfidic Caustic	
•	74027	10/22/08	Sched- PA	CES Environmen	tal Services,		CES Environmental Services - Port Arthur	Boise	Cascade	Spent Sulfidic Caustic	
	73624	10/17/08	Comp	CES Environmen	tal Services,		CES Environmental Services @ KMTEX	Boise	Cascade	Spent Sulfidic Caustic	
	74025	10/20/08	Sched	CES Environmen	tal Services,		CES Environmental Services - Port Arthur	Boise	Cascade	Spent Sulfidic Caustic	
	72962	10/13/08	Comp	CES Environmen	tal Services,	Inc.	CES Environmental Services, Inc	. Boise	Cascade	Spent Sulfidic Caustic	M
	74020	10/21/08	Sched- PA	CES Environmen	tal Services,		CES Environmental Services - Port Arthur	Boise	Cascade	Spent Sulfidic Caustic	
	74019	10/20/08	Sched	CES Environmen	tal Services,	Inc.	CES Environmental Services @ KMTEX	Boise	Cascade	Spent Sulfidic Caustic	
	73947	10/16/08	Comp	CES Environmen	tal Services,	Inc.	CES Environmental Services, Inc	. Boise	Cascade	Spent Sulfidic Caustic	М
ţ.,	73615	10/15/08	Comp	CES Environmen	tal Services,	Inc.	CES Environmental Services @ KMTEX	Boise	Cascade	Spent Sulfidic Caustic	
	73614	10/16/08	Comp	CES Environmen	tal Services,	Inc.	CES Environmental Services @ KMTEX	Boise	Cascade	Spent Sulfidic Caustic	М
	73629	10/17/08	Comp	CES Environmen	tal Services,	Inc.	CES Environmental Services @ KMTEX	Boise	Cascade	Spent Sulfidic Caustic	
	73628	10/16/08	Comp	CES Environmen	tal Services,	Inc.	CES Environmental Services @ KMTEX	Boise	Cascade	Spent Sulfidic Caustic	М
	73627	10/15/08	Comp	CES Environmen	tal Services	Inc.	CES Environmental Services, Inc	c. Boise	Cascade	Spent Sulfidic Caustic	М
	74026	10/21/08	Sched- PA	CES Environmen	tal Services	, Inc.	CES Environmental Services - Port Arthur	Boise	Cascade	Spent Sulfidic Caustic	

CES Environmental Services, inc.

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Per	See Section of Management and	، محمد المراجعة المر	و الله الله الله الله الله الله الله الل	rilliant system, as all non-linear straighteen and second	Signature:		

Pink (Receiving Facility Copy) Golden Rod (Generator 1st Copy)

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Original – Shipper Provided Short Fo	rm Straight Bill of Lading – Not Negotiable – Domestic
SHIPPED FROM:	
CES Environmental Services, Inc	. 11a) 2553
4904 Griggs Rd	11b)
Houaton TX 77021	110)
(713) 676-1460	110)
said carrier (the word carrier being understood throughout it carry to its unusual place of delivery at said destination, if o goods; it is not of listelf a confract of carriage, if is mutually any time interested in all or any of said property, that every between shipper and carrier or intermediany. For payment: Charges to be blined to Shipper or the "Billed to to Shipper or the "Billed to" party will put prior written conse	is as noted (content and condition of packages unknown), marked, consigned, and destined as Indicated below, which its as meaning any person or corporation authorized to be in possession of the properly under the contract) agrees to ritis route, otherwise to deliver to snother carrier on the route to said destination. This SHI of Lading is a receipt for agreed, as to each carrier of sit or as to any said over all or any portion of said route to destination, and as to each party a service to be performed hereunder shall be subject to all the terms and conditions contained in the applicable contract. If party are set forth in the governing contract with Shipper. No charges other transitives contained therein may be billed to Shipper. The extra copy of this BHI of Lading, fundational at the time of shipmers, must be abscised to the freight bill.
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CONSIGNED TO :	CARRIER:
hydrocarbon resource	Firebird PO Box 668
	Humble TX 77347
্য This is to certify that the product stated below are properly ব	SESTING, described, packaged, marked and labeled and is in proper condition for transportation according to the
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PO BOX 668 HUMBLE,TX 77347 281-548-2700

FIREBIRD Bulk Carriers, Inc.

SERVICE BILL OF LADING

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EPA ID = TXD988060299, TCEQ = 41908

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Page 1 Of 1	A CA	Transportation Accounting List								
Job # Job D	ate Job Status	Customer	Generator	Facility	Search	Notes				
64375 05/23		Citgo Refinery	Citgo Refinery	Potlatch	Citgo Refinery (Citgo - Lake Charles, LA)					
64374 05/22	/08 Sched	Citgo Refinery	Citgo Refinery	Potlatch	Citgo Refinery (Citgo - Lake Charles, LA)					
64373 05/21	/08 Comp	Citgo Refinery	Citgo Refinery	Potlatch	Citgo Refinery (Citgo - Lake Charles, LA)	M C				
64372 05/20	/08 Sched	Citgo Refinery	Citgo Refinery	Potlatch	Citgo Refinery (Citgo - Lake Charles, LA)					
64371 05/19	/08 Comp	Citgo Refinery	Citgo Refinery	Potlatch	Citgo Refinery (Citgo - Lake Charles, LA)	МС				
64600 05/18	/08 Comp	Citgo Refinery	Citgo Refinery	Potlatch	Citgo Refinery (Citgo - Lake Charles, LA)	M				
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Date	Code	Vendor	Description	Code	Invoice	3)	Num	Туре	Outstanding	(Draw 4)	check#	Balance
			Motor Oil Structure Discipline Lead			ŀ						ĺ
4/14/2008	99.515	Texas Gulf Coast Engineers, LTD	Engineer 14.0 @105.00, 16.5 @125.00	6.20	(3,532.50)				(3,532.50)	L		(3,532.50)
			Motor Oil Structure Discipline Lead	·							Ī	
4/14/2008	99.516	Texas Gulf Coast Engineers, LTD	Engineer 19 @ 105.	6.20	(1,995.00)]		l	(1,995.00)			(1,995.00)
			Motor Oil Structure Discipline Lead									
4/14/2008	99.517	Texas Gulf Coast Engineers, LTD	Engineer 10 @ 105. 27 @ 130.	6.20	(4,560.00)				(4,560.00)			(4,560.00)
			Motor Oil Structure Discipline Lead						1			
4/23/2008	99.519	Texas Gulf Coast Engineers, LTD	Engineer-10 @ 105.00 & 33 @ 133.00	6.20	(7,335.00)			l	(7,335.00)			(7,335.00)
5/20/2008	99.528	Primary Steel Products, Inc.	8X8 Square Tube	7.40	(849.56)		.,		(849.56)			(849.56)
5/20/2008	99.529	Primary Steel Products, Inc.	Motor Oil Project - Supplies	7.40	(2,553.40)	I			(2,553.40)		Ŭ	(2,553.40)
			Install Buss Weatherhead - Motor Oil `					-				
5/20/2008	99.530	Coastline Electric, LP	Facility	7.80	(17,977.02)]]	J		(17,977.02)	17,977.02	38815	0.00
5/27/2008	99.532	Pavement Services	new slab / piers	7.40	(11,853.37)				(11,853.37)			(11,853.37)
			engineering man powers for 3D structural									ĺ
5/28/2008	99.533	Texas Gulf Coast Engineers, LTD	drawings with oil process equipment	6.20	(945.00)				(945.00)			(945.00)

(205,065.15) 153,464.30

(51,600.85) 17,977.02

(33,623.83)

No boards up-u/p
No Loads up-u/p
No Loads up-1/5
None wash

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m me mori o

Job #	Job Date	Job Status	Customer	Generator	Facility	Search	Notes
65178	06/02/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic	
65167	06/03/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic	
65166	06/02/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic	
6517/2	06/02/08	Sched	CES Environmental Services, Pinc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic	u scudin

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ROSTD from gus 3 6/10/07

uld BOH'S

612 - 408101 613- 408102

Notes

EPAHO081001623

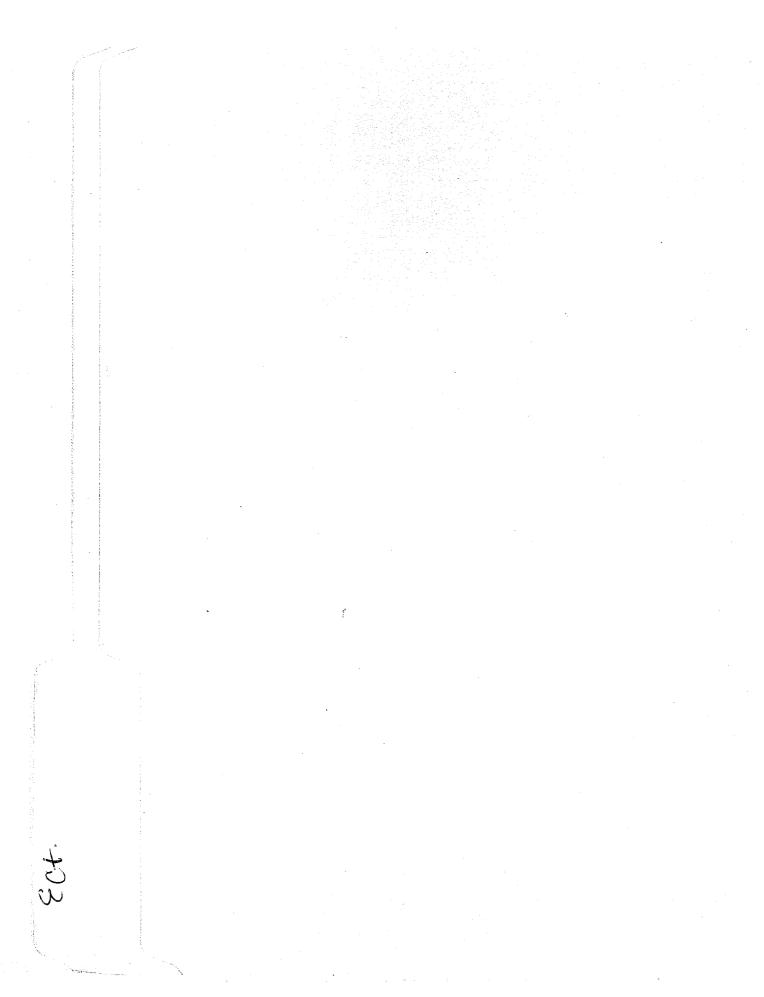
Transportation Accounting List

	Job #	Job Date	Job Status	Customer	Generator	Facility	Search
_	64820	05/27/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic
	64802	05/28/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic
	648031	05/29/08	Softed	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic
	64804 ^V	05/30/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic
	64805	05/3 1/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic
	64806	05/26/08	Çar	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic
	64807	05/26/08	Cah	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic
_	64801	-05/27/08	sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic
	64809	05/27/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic
	64818	05/31/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic
	64811	05/28/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic
	64812	05/28/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic
	64813	05/29/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic
	64814	05/29/08	Sobed	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic
	64815	05/30/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic
	64816	05/30/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic
	64817	05/31/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic
	64808	05/26/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic

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Job #	Job Date	Job Status	Customer	Generator	Facility	Search	Notes
64411	05/20/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic	/ ¿n
64043	05/18/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic	CEB
64014	05/18/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic	
64403	05/20/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic	
64,404	05/21/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic) Regulations
64405	05/22/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic	
64406	05/23/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic	
64407	05/24/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic	1
64408	05/19/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic	Manlighton
64012	05/18/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic	Highlishter
64410	05/20/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic	JONATO
64419	05/24/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic	Salottis
64412	05/21/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic	WKT
64413	05/21/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic	
64414	05/22/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic	NUCTO
64402	05/19/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic	RQ mdd
64415	05/22/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic	
64416	05/23/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic	Others.
64417	05/23/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic	
64418	05/24/08	Schred	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic	
64409	05/19/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	International Paper (Manfield)	Spent Sulfidic Caustic	



GES Environmental Services, Inc.

Bill Of Lading #:

	esi esi.	iraty 82 dake Kalendari							
older ID :	3 3	Environmen of Procees (58) · · ·					
)riginəl – S	hipper	Provided	Short F	orm Straight Bill of Lading – Not Negotiable – Domestic	a.a.				
HIPPED	FROM	# # # # # # # # # # # # # # # # # # #							
ES Envii	onmer	ital Serv	ices, In	ic. 11a) 2429					
904 Grig	gs Rd			11b)					
louston,		021		11c)					
713) 676	-1460			11c)					
eld carrier (the warry to its unusua occis; it is not of ny firme intereste divosen shipper a or payment. Cha	ord carrier i al place of d itself a confi d in all or ar and carrier o rges to be bi	being understor elivery at said o ract of carriage ny of said propa or Intervnediary. Bled to Shipper	od firmoughous sessinsation, i it is mustual ority, that eve or the "Bille	cept as noted (content and condition of packages unknown), marked, consigned, and destined as indicated below tiths as meaning any person or corporation authorized to be in possession of the property under the contract) ag if on its rouse, otherwise to deliver to another carrier on the rouse to said destination. This Bill of Lading is a receipt by agreed, as to each carrier of all or as to any sold over all or any portion of said rouse to destination, and as to end service to be performed hereunder shall be subject to all the terms and conditions contained in the applicable of to party are set forth in the governing contract with Shipper, No charges other than those contained therein may	viees to out for soin party contract y be billed				
Silloper or the " Emitted to Ships				sent of Shipper. The extra copy of this Bill of Lading, furnished at the time of shipment, must be sitached to the fr	eight bill				
ONSIGN	ED TO):	ne and the pair before a Charles assume	CARRIER:	*****************				
ydrocarb	on reso	ource		Firebird	6:				
				PO Box 668					
				Humble, TX 77347					
Cont		Total Guantity	Unit WtVol	Description of Materials, Special Marks, and Exceptions					
No.	Туре		<u> </u>		j				
25 1		6189	G	NA1993, Combustible Liquid, n.o.s., 3, PG III					
nipper : 2	GES E	nvironme	ental Se	ervices, Inc.	,				
er :(<u></u>	0	dela	~1	Signature: Date: 26 L	1/2				
urrier <u>Fi</u>	ebird		√ (.						
er :	ad taggir access of the Agency and the total	er-er-er-er-er-er-er-er-er-er-er-er-er-e		Signature : Date :					
eceiving	Facilit	y <u>hydro</u>	carbon	ı resource					
er:				Signature : Date :					
White (Generat	or Return :	Copy)	Yellow	(Transporter Copy) Pink (Receiving Facility Copy) Golden Rod (Generator 1st	Сору)				

PO BOX 668 HUMBLE,TX 77347

OAD RATE:

FIREBIRD Bulk Carriers, Inc.

SERVICE BILL OF LADING

10200

281-548-270	0	EPA	ID = TXD988	3060299, TC	CEQ = 4190	8	Customer BL No.		
CUSTON	ИER:	HRR			<u> </u>	D	ATE: 6.16.	Ø8)	
LOAD ADDRESS	(ES	J. Greig	—————————————————————————————————————			SHIPMENT ADDRESS		plac Ki	
CONTACT: PHONE		X 2% 31 % 1]	CONTACT PHONE	:		
LOAD DESC		(USE	DOT DESCRIP	TION IF APPR		R DESCRIPTION	ON AS LISTED ON MA	NIFEST OR CUSTO	OMER BL)
QOAITII I	<u> </u>								OOALL HOKET
Let G	4/54								
			IFR/	remb	W 4	775 (12)	4-9300		
		. L			240.			- 	· · · · · · · · · · · · · · · · · · ·
LOAD TIME	DATE:	PM	DATE:	D = DISP	PATCHED (CORD		
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12:30		12:30		4	DED & DE				
1:00		1:00		4		STINATION			
1:30		1:30		4	_		AND UNLOADED		
2:00		2:00		RD = RE	TURN TRU	JCK TO YAF	RD SIGN OFF DIS	PATCH	
2:30		2:30							
3:00		3:00			TRAILER				,
3:30		<i>∮</i> 2_3:30	6-16-05	223	1321	VAC	DUMP -	ROLLOFF □	
4:00		4:00				<u></u>	BOX NUMBERS:		
4:30		4:30		MANIFEST	r no:		BOX CONDITION:		
5:00		5:00							
5:30		5:30	1.16 28]					
6:00		6:00]					
6:30	<u> </u>	6:30]					
7:00		7:00							
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8:00		8:00		SHIP	PER:			_DATE:	-,- ,
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9:00		9:00	 	CONSI	GNEE:_			_DATE:	1101
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11:00		11:00 11:30		4			ED BY DRIVER WERE IN GOO		
11:30		11.30		-	,		DRIVER IN REMARKS SECTION		
FOR OFFICE							SES TO REPAIR DAMAGES S	*	IFAL PERIOD
TOTAL JOB T	IME:			MAY BE APPLI	IED THE BILL	ING INVOICE AND	ARE THE RESPONSIBILITY	JE THE SHIPPER.	
KIO DATE.			-						

GOLD - ORIGIN / GENERATOR

PINK - DESTINATION / RECEIVER



14329 Chrisman Road Houston, Texas 77039 (281) 987-8789 Fax (281) 987-8791



Ticket No.:

2006241

UID: 1213653783

Griggs

Date:

6/16/2008 Time:

5:03:47PM

Customer: JB8L Order:

Delivery Instructions:

FULL 76.100 LBS

109898

CES ENVIRONMENTAL SERVICES, INC

WEIGH TRUCKS

P.O.: Product:

010

WEIGH TRUCK

Carrier:

Vehicle: CES223

License No.:

Job:

TRAILOR *321

Customer Signature:

COPY 3 CARRIER

Gross: 38.06*

Tare:

0.01 * Net: 38.05 *

* Manual Weight

Loads Today: 4

4.00 Load

Qty Today Order Loads: 417 Qty To Date:

415.00

Weighmaster: CHRIS ARSOLA

NOTICE: The carrier/customer involved in the transportation or handling of materials covered by this document is an independent entity and shall not be deemed for any purpose to be an employee, agent, or representative of Southern Crushed Concrete (SCC). The carrier/customer shall save and hold SCC harmless from all liability, damages, loss, claims, demands and/or actions of any nature which arise out of or are related to, such transportation or handling.

Carrier Signature:

State Certification of Weights and Measures

A 1 Public Scales

727 McCarty Highway 90 (Beaumont Rd) Phone 713-675-9500 P.O. Box 1261 Houston, Texas 77251

Time In: 12:55:22 Time Out 15:18:09 Date In: 06/16/2008 Date Out 06/16/2008

Trailer:321

Tractor :223

Payment Type: Charge

Customer:

FIREBIRD

Acct.No:

05420

From

To

Material

Total Charge

6.00

Weighmaster RS

Ticket no.:

186041



Gross: Tare:

74020

Tons:

22.40

Drive:

O

Trailer:

Wood George Certified Public Weigher Harris County, Texas

CES Environmental Services, Inc.

Bill Of Lading #:

Folder 3D :		vironmen Unreetrict		ida			yn teonoo i luuruu (a etyjä muer yyydineetoon aerokuleetoo en eero	
Original – Shi	pper Pr	ovided	Short F	orm Straight Bill of Lading	ı – Not Nego	otiable – Do	mestic	
SHIPPED FI	ROM:							
CES Enviror	ımenta	al Servi	ices, In	c.	ta) 2583			
4904 Griggs	Rd	,	,		1b)			
Houston, T.	X 7702	21			1c)	or Av		
(713) 676-14	460				1c)			
said carrier (the word carry to its unusual pit goods; it is not of itself any time interested in between shipper and of For payment Charges	camer beingsce of deliver for any contract and or any contract and contract and contract for the billed	ng understoo ery at said o i of camiage. If said prope termediany. I to Ehlpper	of throughous lestination, it it is mutuall ity, that ever or the "Billeo	ept as noted (content and condition of partities as meaning any person or corporation in its route, otherwise to deliver to another agreed, as to each carrier of all or as to y service to be performed hereunder shall to party are set forth in the governing co	on authorized to be er carrier on the ro any said over all c I be subject to all t ourset with Shippe	In possession of the to said destine in say portion of sa the terms and concern. No charges other.	the property under the calon. This Bill of Lading aid route to destination, althous contained in the stream those contained in	ortract) agrees to its a receipt for and as to each party applicable contract therein may be billed
	d to" party	without prior	witten cons	ent of Shipper. The extra copy of this Bill				
CONSIGNEI	OTC:			CAR	RIER:			
Midstate Env	ironm	ental S	ervices	LLC Mids	tate Enviro	onmental S	Services LLC	
P.O. Box 26	1180			P.O.	Box 2611	8 0		
Corpus Chris	sti , TX	78426	ÿ	Corp	us Christi	, TX 7842	6	
onth on the face of this	till of ladin	g The ships Total		diglaway Administration regulations at 45 and is the tendening pany. Description of Ma	nden i trock i distance senso albidos cantos		stroopstalli (samahawara a liihad ayosaban Abanisyakhikkaa Kiisadhik	Control of the section of the sectio
No. 1	ype					- 1 - Maria and a second of the Maria and the Second of th		
/es 1		748	UG 	flammab	le Liquids, n.	.o.s.,3, UN 1	1993, PG II	
Shipper : <u>C</u> E	S Eŋv	ironme	ntal Se	rvices, Inc.				1 /
er : 6-3	<u>, 14</u>		7	Signature :		- 	Date : O	6/12/0
Carrier Mids	tate E		~~	Services LLC				•
er: MO	9cc ((6	2520	Signature : 1		107	Date :	12.08
leceivi <mark>ng F</mark> a	cility	Midst	ate Em	vironmental Services LI	.c			
Per;				Signature :	e hija kahijin muunin kahija ka ka solutan kahija ka	and the state of t	Date :	معادي والمعادية والم
White (Generator F	teturn Co	py)	Yellow (Transporter Copy) Pink	(Receiving Fac	Hity Copy)	Golden Rod (Gene	erater 1st Copy)

Midstate Environmental Services, LP PO Box 261180 Corpus Christi, TX 78426-1180 (361) 387-2171 In Case of Emergency (866) 387-2171

Robstown:	
EPA ID # TXR0000	51227
TRANSPORTER #	A85752
TCEQ # A85752	

	Waco:		Luling:
00051227	EPA ID #	TXR000051235	EPA ID#1
R # A85752	TRANSF	ORTER # A85738	TRANSPO
2	TCEQ#	A85738	TCEQ#A
⊿ HAZAR	DOUS	☐ NON-HAZ	ARDOUS
		rain .	

Luling: EPA ID # TXR000036343 TRANSPORTER # A85653 TCEQ # A85653

Valley:
EPA ID # TXR000055376
TRANSPORTER # A85796
TCEQ # A85796

TYPE
D-DRUM
C-CARTON
B-BAG
T-TRUCK
P-POUNDS
Y-YARDS
O-OTHER

FUEL OIL - USED OIL (DELIVERY ☐ PICKUP ☐)	DESCR	RIPTION	WASTE CODE	QTY	UNITS	CONTAINERS No. Type
GENERATOR/SHIPPERS/CUSTOMERS NAME EPA#	FUEL OIL*3*	NA1993* PGIII	1993	7480	<u>C</u> 411	1
LOC OF MATERIALS PICKED UP/DELIVERED CITY STATE	LOW SULFUI NA1993* PG	R DIESEL*3* III				
BUSINESS MAILING ADDRESS JCITY STATE ZIP	PETROLEUM *3*UN1267* F	I CRUDE OIL PGI				
DATE SHIPPED TIME TELEPHONE	CONDENSAT PG II	E*3*UN1203*				
GENERATOR SIGNATURE	USED OIL					
PRINT GENERATOR NAME	OILY WATER					
TRANSPORTER	WATER					
TRUCK# TRAILER#.	OTHER		_	7		
TRANSPORTER NAME, (IF OTHER THAN MIDSTATE ENVIRONMENTAL SERVICE)	GAUGE	18	Т	2ND		BS&W
	OPEN					
	CLOSE					
	BS&W	1.0	c 10	556	12. 14 C	800
MIDSTATE ENVIRONMENTAL SERVICE, LP P.O. BOX 261180 CORPUS CHRISTI, TX 78426-1180	NET					
I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL WAS PICKED UP AT THE GENERATOR ABOVE				ABOVE NAME		
DRIVER SHIPMENT DATE	DRIVER SIGNATURE	And the second second			SI	IIPMENT DATE
PRINT DRIVER NAME	PRINT DRIVER NA	ME	سعد است. مو	7		
Byhard love 6 14 08	36	A	And the second	Se		J 57 54
DESTINATIO	N - FACILIT	Υ				
SITE NAME		PHONE	#			
ADDRESS	Jack Committee of the C	, i	· · · · · · · · · · · · · · · · · · ·	erer Santa Santa Sa	1.41	
US EPA ID NO. STATE FACILI'	ry's in	177779 <u>9</u>	<u> Jawa</u>		13 C	
US EPA ID NO. STATE FACILI	II WIM			· .		
NAME OF AUTHORIZED AGENT SIGNATURE		R	ECEIPT DAT	=		
X					i garan	

FORM #609 (REV. 7/05)

WHITE - ORIGINAL YELLOW - FACILITY PINK - TRANSPORTER GOLD - GENERATOR'S FIRST COPY

CES Environmental Services, Inc.

Bill Of Lading #:

older ID: Lubrizot (Deer Park) H-73 Diluent Oil	
riginal – Shipper Provided Short Fo	rm Straight Bill of Lading – Not Negotiable – Domestic
HIPPED FROM:	
ES Environmental Services, inc	:. 11a) 2553
904 Griggs Rd	11b)
ouston , TX 77021	11c)
13) 676-1460	11c)
ld carrier (the word carrier being underglood throughout to my to its unusual place of delivery at saild destination, if o part it is not of itself a contract of carriage, it is multipliv	ept as noted (content and condition of packages unknown), marked, consigned, and destined as indicated below, which this as meaning any person or corporation authorized to be in possession of the property under the contract) agrees to on its route, otherwise to deliver to another carrier on the route to said destination. This Bill of Lading is a receipt for agreed, as to each carrier of all or any said over all or any portion of said route to destination, and as to each party at service to be performed hereunder shall be subject to all the terms and conditions contained in the applicable contract
r payment: Charges to be billed to Shipper or the "Billed Shipper or the "Billed to" party without prior written conse prnitted to Shipper or the "Billed to" party and sent to:	to" party are set forth in the governing contract with 8 hipper. No charges other than those contained therein may be billed ent of 8 hipper. The extra copy of this Bill of Lading, furnished at the time of shipment, must be attached to the freight bill
ONSIGNED TO:	CARRIER:
/drocarbon resource	Firebird
	PO Box 668
	Humble, TX 77347
No. Type	NA1983, Combustible Liquid, n.o.s., 3, PG III
ipper : CES Environmental Ser	rvices, Inc.
er: 190 de 1 127	Signature: Date: OS 19 0
rrier Firebird	
er: Juses Hunt	Signature: Date: Date:
ceiving Facility hydrocarbon	resource
er :	Signature : Date :
	Fransporter Copy) Pink (Receiving Facility Copy) Golden Rod (Generator 1st Copy)

PO BOX 668 HUMBLE, TX 77347 281-548-2700

Bulk Carriers, Inc.

SERVICE BILL OF LADING

Customer BL No.

09260

EPAID = TXD988060299, TCEQ = 41908

CUSTO	/IER: _			DATE: 5-19-05						
LOAD ADDRESS CONTACT:		- Long and the second	S Hem:	5 th , 74		SHIPMEN ADDRESS CONTACT	B Hey	RR	71	
PHONE					_	PHONE				
LOAD DES	CRIPTION	√. Ve` (USE	DOT DESCRIE	PTION IF APPR	OPRIATE (OR DESCRIPTI	ION AS LISTED ON MA	NIFEST OR CUS	TOMER RIV	
QUANTITY	J. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	1		DESCRIP		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	01110 210120 01111	I wr	SCALE TICKET	
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AM	DATE:	PM	DATE:		PATCHED					
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12:30		12:30				EPARTED				
1:00		1:00	 	AD = ARRIVED DESTINATION						
1:30		1:30	 	DD = DEPART DESTINATION AND UNLOADED						
2:00		2:00		RD = RETURN TRUCK TO YARD SIGN OFF DISPATCH						
2:30		2:30		7						
3:00		3:00		TRUCK	TRAILE	R TYPE	1	-		
3:30		<i>D</i> 3:30	5-19	228	1324	VAC	Ø DUMP □	ROLLOFF C	i]	
4:00		AL 4:00	5-19				BOX NUMBERS:			
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TOTAL JOB 1 HR. RATE:				MAT DE APPL	ILD TO THE BIL	PHACTHACHEE WAR	AND THE NEGROTORIEST T	O, THE SHIFFER.		
LOAD RATE:		•	WHITE-TRA		YELLOW - IN	OICE PIN	K - DESTINATION / RECEIVER	GOLD - ORIGIN	/ GENERATOR	
LOAD IVATE.			ı ili					•		

State Certification of Weights and Measures

Ticket no.:

183021

A 1 Public Scales

727 McCarty Highway 90 (Beaumont Rd) 🥳 Phone 713-675-9500 P.O. Hox 1261 Houston, Texas 77251

Time in: 16:01:59 Time Out 16:01:59

Date in: 05/19/2008 Date Out 05/19/2008

Trailer: 324

Tractor:228

Payment Type:

Charge

Customer:

FIREBIRD

Acct.No:

05420

From ិល Material

Total Charge

6.00

Weighmaster RS

Oriver:



Gross: 27820 Tare: Net: 0 Tons: 0.00 Steer: 0 Drive: Trailer:

Wood George Certified Public Weigher Harris County Jayas

CES Environmental Services, Inc.

Bill Of Lading #:

Fold	ler IO :		nyironmer of Methanol	tal Servic	19. Inc.		
On	ginal – Sh	ipper l	² rovided	Short F	orm Straight Bill of Lading – N	Vot Negotiable – Domestic	
SH	IPPED F	ROM	* *				
CE	S Enviro	nmen	tai Serv	ices, in	c. 11a)	2432	
	34 Griggs			,	11b)		
	uston , T		121		11c)	•	
(71	3) 676-1	460			11c)		
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nterm	arrier's or shipp odel Certificate In the face of this Contain	All Information of the s	nation require	i by Federal per name he	ein is the tendering party.	390.542 implementing the intermodal Safe Container Act of 1932 is	s set
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hit	per : C	ES En	vironme	ental Sc	rvices, Inc.		
)er	:	AM	60	2677	Signature :	B Date: 6-5-28	
211	ier <u>L&B</u>	Tran	sport, L	LC			******
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vá dele	o (Camemter)	estum f	'anxi	Valinur	Transporter Convi	ekina Facility Cony) - Golden Rod (Generator 1st C	ansi



14329 Chrisman Road Houston, Texas 77039 (281) 987-8789 Fax (281) 987-8791 www.scctx.com



Ticket No.:

2005876

REPRINT UID: 1212665102

Griggs

Date: 6/5/2008

Customer: JB7K

Time: 9:48:27AM CASH / FOB

Order: 109870 P.O.: **CASH**

SCALE WEIGHT

Product: 010

WEIGH TRUCK

Carrier:

Vehicle: 802

Delivery Instructions: TRAILOR *209

FULL * 69.420 LBS

EMPTY * 27.900 LBS DIFF* 41.500 LBS

Customer Signature:

Job: CUSTOMER

License No.:

COPY 1 OFFICE

Gross: 34.71* Tare: 13.96 * Net: 20.75 *

* Manual Weight

-1.00Load Loads Today: 1 Qty Today Order Loads: 22 16.00 Qty To Date:

Cash Sale Total: -6.00

Weighmaster: ELISEO GARZA JR

NOTICE: The carrier/customer involved in the transportation or handling of materials covered by this document is an independent entity and shall not be deemed for any purpose to be an employee, agent, or representative of Southern Crushed Concrete (SCC). The carrier/customer shall save and hold SCC harmless from all liability, damages, loss, claims, demands and/or actions of any nature which arise out of or are related to, such transportation or handling.

Carrier Signature:



(281) 987-8789 Fax (281) 987-8791 SOUTHERN

Time:

www.scctx.com CRUSHED CONCRETE

Ticket No.:

2005876

REPRINT

UID: 1212665102

Tare: 13.96 * Net: 20.75 *

-6.00

Griggs

Order:

Date: 6/5/2008

Customer: JB7K

CASH / FOB 109870 SCALE WEIGHT

CASH

P.O.:

Product: 010

Carrier:

Delivery Instructions: TRAILOR *209

FULL * 69.420 LBS

EMPTY * 27.900 LBS DIFF* 41.500 LBS

Customer

14329 Chrisman Road Houston, Texas 77039

WEIGH TRUCK

Vehicle: 802

9:48:27AM

Gross: 34.71* * Manual Weight

Loads Today: 1 Order Loads: 22

Qtv Todav Qty To Date: -1.00Load 16.00

Cash Sale Total: \$

Weighmaster: ELISEO GARZA JR

NOTICE: The carrier/customer involved in the transportation or handling of materials covered by this document is an independent entity and shall not be deemed for any purpose to be an employee, agent, or representative of Southern Crushed Concrete (SCC). The carrier/customer shall save and hold SCC harmless from all liability, damages, loss, claims, demands and/or actions of any nature which arise out of or are related to, such transportation or handling.

Carrier Signature:

Job: CUSTOMER

License No.:

Signature:

COPY 2 CUSTOMER

Ticket No.:

2005876

REPRINT

-1.00 Load

UID: 1212665102



14329 Chrisman Road Houston, Texas 77039 (281) 987-8789 Fax (281) 987-8791 www.scctx.com

CRUSHED CONCRETE

Griggs Date:

6/5/2008

9:48:27AM Time:

Customer: JB7K Order:

109870 **CASH**

CASH / FOB SCALE WEIGHT

WEIGH TRUCK

Vehicle: 802

Job: CUSTOMER

License No.:

Product: Carrier:

P.O.:

010

Delivery Instructions:

TRAILOR *209

FULL * 69.420 LBS

EMPTY * 27.900 LBS DIFF* 41.500 LBS

Customer Signature:

COPY 3 CARRIER

Gross: 34.71 * Tare: 13.96 * Net: 20.75 * * Manual Weight

Loads Today: 1 Qty Today Order Loads: 22

Qtv To Date: 16.00 -6.00 \$

Weighmaster: ELISEO GARZA JR

NOTICE: The carrier/customer involved in the transportation or handling of materials covered by this document is an independent entity and shall not be deemed for any purpose to be an employee, agent, or representative of Southern Crushed Concrete (SCC). The carrier/customer shall save and hold SCC harmless from all liability, damages, loss, claims, demands and/or actions of any nature which arise out of or are related to, such transportation or handling.

Carrier Signature:

Cash Sale Total:



14329 Chrisman Road Houston, Texas 77039 (281) 987-8789 Fax (281) 987-8791 www.scctx.com



Ticket No.:

2005831



UID: 1212665102

Griggs

Date: 6/5/2008

CRUSHED CONCRETE

Customer: JB7K

109870 Order: **CASH** P.O.:

Product: 010

Carrier:

Delivery Instructions:

TRAILOR *209 EMPTY * 27.900 LBS

Customer Signature:

6:26:13AM Time:

CASH / FOB SCALE WEIGHT

Job: CUSTOMER WEIGH TRUCK

Vehicle: 802 License No.:

COPY 2 CUSTOMER

Gross: 13.96* 0.01 * Net: 13.95 * Tare: * Manual Weight

Loads Today: 1 -1.00Load **Qty Today** Order Loads: 22 Qty To Date: 16.00 **Cash Sale Total:**

Weighmaster: ELISEO GARZA JR

NOTICE: The carrier/customer involved in the transportation or handling of materials covered by this document is an independent entity and shall not be deemed for any purpose to be an employee, agent, or representative of Southern Crushed Concrete (SCC). The carrier/customer shall save and hold SCC harmless from all liability, damages, loss, claims, demands and/or actions of any nature which arise out of or are related to, such transportation or handling.

Carrier Signature: Smorty Hodge

1/13 to 7/19,

Bay Andrian

Transportation Accounting List

Job #	Job Date	Job Status	Customer	Generator	Facility	Search	Notes
67398	07/10/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
67390	07/08/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
67391	07/09/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
67392	07/10/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
P 67393	07/11/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
67394	07/12/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
67395	07/07/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
67389	07/07/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
67397	07/09/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
67406	07/12/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
67399	07/1 1/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	y.
67400	07/12/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
67401	07/07/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
67402	07/08/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	 CES Environmental Services Sale of Sulfidic Caustic 	
67403	07/09/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
67404	07/10/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
67405	07/11/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
67396	07/08/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	

Job #	Job Date	Job Status	Customer	Generator	Facility	Search	Notes
66996	07/05/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
66995	07/03/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
66994	07/05/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
66989	07/05/08	Sched	CSS Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
66949	07/02/08	Echely.	CES Environmental Services,	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
66948	07/01/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	1 200
66947	06/30/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	(0,1)
66946	07/02/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	_
66945	07/01/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
66944	06/30/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
66988	07/03/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	<i> </i>
66993	07/03/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
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				1/1/	NU (10 K	

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Job #	Job Date	Job Status	Customer	Generator	Facility	Search	Notes
66790	06/28/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
66782	06/27/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
66781	06/27/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
66780	06/26/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
66789	06/28/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	en e
66775	06/26/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
66460	06/28/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
66459	06/27/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
66458	06/26/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
66457	06/25/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
66456	06/24/08	- Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	•
66455	06/23/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	*

Job #	Job Date	Job Status	Customer	Generator	Facility	Search	Notes
66020	06/21/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
66019	06/20/08	Comp	CES Environmental Services, Inc.	CES Environmental Services, Inc.	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
66018	06/19/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
66017	06/18/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
66016	06/17/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
66015	06/16/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	

Job #	Job Date	Job Status	Customer	Generator	Facility	Search	Notes
65598	06/14/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
65594	-06/10/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
65593	06/09/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
65597	06/13/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
65596	06/12/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
65595	06/11/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	Our Truck broke down

Job #	Job Date	Job Status	Customer	Generator	Facility	Search		Notes
65190	06/07/98	Can-	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic		
65189	06/06/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic		
65188	06/05/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic		
65187	06/04/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic		y.
6 5 18 6	06/03/08	Sched	CES Environmental Services,	GES Environmental Services @ KMTEX	Smurit Stone	GES Environmental Services Sale of Sulfidic Caustic	LOAD NO	GO Berke Down
65185	06/02/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	TRICK	Beake Down



Job #	Job Date	Job Status	Customer	Generator	Facility	Search	Notes
6488	,05/27/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	Citgo Refinery (Citgo - Lake Charles, LA)	
64826	05/31/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
64825	05/30/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
64824	05/29/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
64823	05/28/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
64822	C5 1/08	Sound	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	CES Environmental Services Sale of Sulfidic Caustic	
64587	05/25/08	Sag)	Citgo Refinery	Citgo Refinery	Smurfit Stone	Citgo Refinery (Citgo - Lake Charles, LA)	
						. /	



Transportation Accounting List

5/28/2008 5:12:30 PM

Job #	Job Date	Job Status	Customer	Generator	Facility	Search	Notes
64586	05/24/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Smurfit Stone	Citgo Refinery (Citgo - Lake Charles, LA)	
64585	05/23/08	Sched	Citgo Refinery	Citgo Refinery	Smurfit Stone	Citgo Refinery (Citgo - Lake Charles, LA)	
64584	05/22/08	Sched	Citgo Refinery	Citgo Refinery	Smurfit Stone	Citgo Refinery (Citgo - Lake Charles, LA)	
64583	05/21/08	Sched	Citgo Refinery	Citgo Refinery	Smurfit Stone	Citgo Refinery (Citgo - Lake Charles, LA)	
64582	05/20/08	Sched	Citgo Refinery	Citgo Refinery	Smurfit Stone	Citgo Refinery (Citgo - Lake Charles, LA)	•

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Job #	Job Date	Job Status	Customer	Generator	Facility	Search	Notes
68772	08/01/08		CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
68782	07/29/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
68762	07/28/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
68763	07/29/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
-68764	07/30/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
68765	0.7/31/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
68766	08/01/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX		Spent Sulfidic Caustic	P
68767	08/02/08	Carr	SES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
68768	07/28/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
68769	07/29/08		CES Environmental Services,	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
68781	07/28/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX		Spent Sulfidic Caustic	
68771	07/31/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
68786	08/02/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	LE B
68773	08/02/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
68774	07/28/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
68775	07/29/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
68776	07/30/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
68777	07/31/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
68778	08/01/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
68779	08/02/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
68783	07/30/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX		Spent Sulfidic Caustic	
68784	07/31/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX		Spent Sulfidic Caustic	
68785	08/01/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Cadstic	
68770	07/30/08	Sched	DES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	

EPAHO081001649

Job# Job Date Customer Job Generator **Facility** Search **Notes** Status CES Environmental Services, 68357 07/24/08 Sched CES Environmental Services @ Graphic Packaging Spent Sulfidic Caustic Dna Gome CES Environmental Services, CES Environmental Services @ Graphic Packaging Spent Sulfidic Caustic KMTEX Comp CES Environmental Services, CES Environmental Services @ Graphic Packaging Spent Sulfidic Caustic KMTEX 45 07/25/08 Comp CES Environmental Services. CES Environmental Services @ Graphic Packaging Spent Sulfidic Caustic KMTEX 8346 07/26/08 Comp CES Environmental Services, CES Environmental Services @ Graphic Packaging Spent Sulfidic Caustic KMTEX 688 10 4 07/25/08 Comp CES Environmental Services, CES Environmental Services @ Graphic Packaging Spent Sulfidic Caustic KMTEX 7/21-68351 07/26/08 Sched CES Environmental Services, CES Environmental Services @ Graphic Packaging Spent Sulfidic Caustic 07/21/08 Comb OES Environmental Services. CES Environmental Services @ Graphic Packaging Spent Sulfidic Caustic Inc. KMTEX 07/21/08 Comp. C5S Environmental Services, CES Environmental Services @ Graphic Packaging Spent Sulfidic Caustic KMTEX 7/24/08 School CES Environmental Services, CES Environmental Services @ Graphic Packaging Spent Sulfidic Caustic KMTEX 22/08 Comp. CES Environmental Services, CES Environmental Services @ Graphic Packaging Spent Sulfidic Caustic **KMTEX** 6723/08 Send CFS Environmental Services, CES Environmental Services @ Graphic Packaging Spent Sulfidic Caustic Inc. KMTEX 68366 07/26/08 Sched CES Environmental Services, CES Environmental Services @ Graphic Packaging Spent Sulfidic Caustic **KMTEX** Sched CES Environmental Services, 68358 07/25/08 CES Environmental Services @ Graphic Packaging Spent Sulfidic Caustic **KMTEX** 68359 07/26/08 Sched CES Environmental Services, CES Environmental Services @ Graphic Packaging Spent Sulfidic Caustic **KMTEX** 68360 07/21/08 CES Environmental Services @ Sched CES Environmental Services. Graphic Packaging Spent Sulfidic Caustic KMTEX 0 122 108 Street CES Environmental Services, CES Environmental Services @ Graphic Packaging Spent Sulfidic Caustic KMTEX 07/23/08 School CES Environmental Services, CES Environmental Services @ Graphic Packaging Spent Sulfidic Caustic KMTEX Comp CES Environmental Services, CES Environmental Services @ Graphic Packaging Spent Sulfidic Caustic KMTEX 208 Comp CES Environmental Services. CES Environmental Services @ Graphic Packaging Spent Sulfidic Caustic KMTEX 07/23/08 Comp CES Environmental Services. CES Environmental Services @ Graphic Packaging Spent Sulfidic Caustic KMTEX 68349 07/24/08 Comp CES Environmental Services, CES Environmental Services @ Graphic Packaging Spent Sulfidic Caustic KMTEX 68365 Sched CES Environmental Services. 07/25/08 CES Environmental Services @ Graphic Packaging Spent Sulfidic Caustic Inc. KMTEX 97/22/08 Sched 0ES Environmental Services, CES Environmental Services @ Graphic Packaging Spent Sulfidic Caustic KMTEX

Transportation Accounting List

Transportation Accounting List

							7/17/2000 12/30/02 / / /
Job #	Job Date	Job Status	Customer	Generator	Facility	Search	Notes
67413	07/12/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
67367	07/07/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
67374	07/09/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
67375	07/09/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
67376	0,7/10/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
67377	07/10/08	Comp	CES Environmental Services,	CES Environmental Services @	Graphic Packaging	Spent Sulfidic Caustic	
67378	07/1/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	ned
67379	07/108	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	Ned BY 15
67380	07/12/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
67410	07/09/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
67373	07/07/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	•
67412	07/11/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	a.
67369	07/08/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
67414	07/07/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
67415	07/08/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
67416	07/09/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
67417	07/10/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
67418	07/11/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
67419	07/12/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
67407	07/12/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
67408	07/07/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
67409	07/08/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Cause	
67368	07/08/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent 5	
67411	07/10/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging		

Accounting List

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		Job Status	Customer	Generator	Facility	Search	Notes
66942	07/01/08	School	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	v
67012	07/03/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
66935	06/30/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	3
66936	07/01/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
66937	07/02/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
66938	06/30/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
66939	07/01/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
67011	07/05/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
66941	06/30/08	School	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic CONC	
67010	07/03/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
66943	07/02/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
67015	07/05/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	•
67016	07/03/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
67017	07/05/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	• • • • • • • • • • • • • • • • • • •
67018	07/03/08	Comp	CES Environmental Services, _Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
67019	07/05/08	Sched	CES Environmental Services,	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
66940	07/02/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
	- N	ll	d to ac	1d + get	R#		

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Job #	Job Date	Job Status	Customer	Generator	Facility	Search	Notes
66446	06/26/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
66438	06/24/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
66439	06/25/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
66440	06/26/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
66441	06/27/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
66442	06/28/08	Sched	CES Environmental Services,	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	waiting on
/~66443 <u> </u>	06/23/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	from
66437	06/23/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	Gill
66445	06/25/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
66454	06/28/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
66447	06/27/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
66448	06/28/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	•
66449	06/23/08		CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
66450	06/24/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	•
66451	06/25/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
66452	06/26/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
66453	06/27/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
66444	06/24/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	

Job #	Job Date	Job Status	Customer	Generator	Facility	Search	Notes
66002	06/21/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	,
66006	06/19/08	Sched ²	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	. la Dan
66007	06/20/08	Sched	CES Environmental Services,	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	only tung
66008	06/21/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @	Graphic Packaging	Spent Sulfidic Caustic	1cf4
1 65997 ·	06/16/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
65998	06/17/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
65999	06/18/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic)
66005	06/18/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	K#558009
66001	06/20/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
66014	06/21/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
66003	06/16/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	•
66004	06/1 7 /08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	,
66009	06/16/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
66010	06/17/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	•
66011	06/18/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
66012	06/19/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
66013	06/20/08		CES Environmental Services, Inc.	CES Environmental Services,	Graphic Packaging	Spent Sulfidic Caustic	1
66000	06/19/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	

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Transportation Accounting List

Job #	Job Date	Job Status	Customer	Generator	Facility	Search	Notes
65584	06/12/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
65576	06/10/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	· · · · · · · · · · · · · · · · · · ·
65577	06/1 1/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
65578	06/12/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
65579	06/13/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
65580	06/14/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
65581	06/ 09 /08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
65575	06/09/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
65583	06/1 1/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	,
65592	06/14/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	à
65585	06/13/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
65586	06/13/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
65587		Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	, a
^ #	_06/4 -0/08 ~	- An-104 Mg	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	•
65589	06/14/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
655902	06/11/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
65591	06/12/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
65582	06/10/08	Comp	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	

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Transportation Accounting List

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	Job #	Job Date	Job Status	Customer	Generator	Facility	Search	Notes
	6518 2	06/06/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
	65168	06/04/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	,
	65169	06/05/08 V	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	•
İ	65170	06/06/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
(M)	/651Z/\	16707408	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	•
CYL	65176	-06/06/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
	65177 ·	06/07/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
1	65179 د	06/03/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	•
CXT.	65173	00/03/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
	65181	06/05/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	,
•	65196	-06/07/08	Gen	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
`	65183	06/07/08	Can-	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	• 4
	65191	-06/02/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
•	651 92	06/03/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
	-65193	_06/04/08	Can-	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
	65194	06/05/08	Can	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
•	65195	06/06/08	Can	*CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
	65174	06/04/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	• .
	65175	06/05/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
	65180	06/04/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	•



CES Environmental Services. Inc.

Bill Of Lading #:

Folder ID: Spent Sulfidic Caustic		_
Original – Shipper Provided Short For	m Straight Bill of Lading - Not Negotiable - Domestic	
SHIPPED FROM :		
CES Environmental Services @ K	MTEX 11a)	
2450 South Gulfway Dr.	11b)	
Port Arthur, TX 77641	11c)	

The property described below, in apparent good order, except as noted (content and condition of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this as meaning any person or corporation authorized to be in possession of the property under the contract) agrees to carry to its unusual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. This Bill of Lading is a receipt for goods; it is not of itself a contract of carriage. It is mutually agreed, as to each carrier of all or as to any said over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions contained in the applicable contract between shipper and carrier or intermediary.

For payment: Charges to be billed to Shipper or the "Billed to" party are set forth in the governing contract with Shipper. No charges other than those contained therein may be billed to Shipper or the "Billed to" party without prior written consent of Shipper. The extra copy of this Bill of Lading, furnished at the time of shipment, must be attached to the freight bill submitted to Shipper or the "Billed to" party and sent to:

CONSIGNED TO:

(713) 676-1460

Graphic Packaging

CARRIER:

CES Environmental Services, Inc.

4904 Griggs Rd.

Houston, TX 77021

This is to certify that the product stated below are properly classified, described, packaged, marked and labeled and is in proper condition for transportation according to the applicable regulations of the Department of Transportation. If this Shipment moves between to ports by a carrier by water, the law requires that the Bill of Lading shall state whether it is "carrier's or shipper's weight."

Intermodal Certificate: All information required by Federal Highway Administration regulations at 49 CFR 390.54© implementing the Intermodal Safe Container Act of 1992 is set forth on the face of this bill of lading. The shipper name herein is the tendering party.

		Total				and Exceptions	
	No.	Туре	Quantity	WUVOI			
Yes -	1	TT		P		uids, n.o.s. (sodium hydroxide	
			_				
				_	rvices @ KMTE		
_	-						Date :
Carri	ier : C	ES Env	/ironmen	tal Serv	rices, Inc.		
Per	:				Signature :		Date :
Rece	iving	Facilit	y : Grap	nic Pacl	kaging		
Per	:				Signature :		Date :
White	(Genera	itor Return	Сору)	Yellow (1	ransporter Copy)	Pink (Receiving Facility Copy)	Golden Rod (Generator 1st Copy)



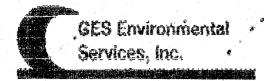
. Рах. (713) 070-(**0**76

Transposision Work Huks

Fightigation is a Symptomatic Caustic Manifest # : Date CES Environmental Services @ KMTEY Chant lickof: Tradada T Graphic Packaging Wimoneoe,41) Considnee: Temphanian I Signature Tigrafur. atorive at Centricities factul companies : Begin Lowling : leave Destination: Fishel option Asrivo At CES Yard : Latina Disebenatio Classification P. S. R. Ending Odomater: Mariferitell Tribiteraust i errer **virtus**cares . intal Marias : Toto # : Driver: Mensell, Dlan Max # : Trailor#:267 ্ট্ৰিয়াজ্য বং কটা, বাব্ৰ ১ ১ দিছাস্থিয়া অধ্যাপ্তাপ্তাপ্তা $\frac{1}{2}(-1)^{n} \left(\frac{1}{2} \right)\right)\right)}{\frac{1}{2} \right)}\right)\right)}\right)\right)}\right) \right)}\right) \right)} \right) \right)} \right) + \frac{1}{n} \left(\frac{1}{n} \right)\right)\right)}{\frac{1}{n} \left(\frac{1}{n} \left(\frac{1}{n} \right)\right)}{\frac{1}{n} \left(\frac{1}{n} \left(\frac{1}{n} \left(\frac{1}{n} \right)\right)\right)}{\frac{1}{n} \left(\frac{1}{n}

Fink (CES Office / IFTA)

Deiden Rod (Custeman



Transportation Work Ticket

Folder ID: Spent Sulfidic Caustic Date: 6/6/2008 Manifest #: CES Environmental Services @ KMTEX Client: Ticket: 65182 International Paper (Manfield)
67APhi'C / Ackagi'NG 7136761460 Phone: Consignee: WIMONÊDE, LA) CES Environmental Services, Inc. Transporter: Sianature Signature Arrive At Destination Leave CES Vard: Arrive At Customer: Begin Unloading: Finish Unloading: Begin Loading: Leave Destination: Finish Loading: Leave Customer: Arrive At CES Yard: Total Hours: CES Unload: Customer PO #: **Ending Odometer:** Gross Weight: Tare Weight: Begining Odometer : _____ Net Weight: **Total Miles:** Driver: Mendoza, Juan Tote # : _____ Tractor #: 2001 Trailer # : 267 Box #: Signature : _____ Job Comments/Equipment :

White (CES Office)

Yellow (CES Office / Billing)

Pink (GES Office / IFTA)

Golden Rod (Customer)

4904 Griggs Road

Tel. (713) 676-1460 Fax. (713) 676-1676

Job #	Job Date	Job Status	Customer	Generator	Facility	Search	Notes
64832	05/31/08		CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	A
64831	05/30/08	Cappe	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	•
64830	05/29/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	r r
64 82/ 9	05/28/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
64828	05/27/08	Sched	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Spent Sulfidic Caustic	
643 9 3/	. 05/25/08	Can	Citgo Refinery	Citgo Refinery	Graphic Packaging	Citgo Refinery (Citgo - Lake Charles, LA)	
64386	05/25/08	Can	Citgo Refinery	Citgo Refinery	Graphic Packaging	Citgo Refinery (Citgo - Lake Charles, LA)	

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Transportation Accounting List

5/28/2008 5:13:54 PM

Job #	Job Date	Job Status	Customer	Generator	Facility	Search		Notes
64385	05/24/08	_l	CES Environmental Services, Inc.	CES Environmental Services @ KMTEX	Graphic Packaging	Citgo Refinery (Citgo - Lake Charles, LA)		·
64392	05/24/08	Can	Citgo Refinery	Citgo Refinery	Graphic Packaging	Citgo Refinery (Citgo - Lake Charles, LA)		
64391	05/23/08	Sched	Citgo Refinery	Citgo Refinery	Graphic Packaging	Citgo Refinery (Citgo - Lake Charles, LA)		
64390	05/22/08	Sched	Citgo Refinery	Citgo Refinery	Graphic Packaging	Citgo Refinery (Citgo - Lake Charles, LA)		
64389	05/21/08	Sched	Citgo Refinery	Citgo Refinery	Graphic Packaging	Citgo Refinery (Citgo - Lake Charles, LA)		,
64388	05/20/08	Sched	Citgo Refinery	Citgo Refinery	Graphic Packaging	Citgo Refinery (Citgo - Lake Charles, LA)		
64387	05/19/08	Sched	Citgo Refinery	Citgo Refinery	Graphic Packaging	Citgo Refinery (Citgo - Lake Charles, LA)		
64384	05/23/08	Selfed	Citgo Refinery	Citgo Refinery	Graphic Packaging	Citgo Refinery (Citgo - Lake Charles, LA)		
64 <u>383</u>	05/22/08	Comp	Citgo Refinery	Citgo Refinery	Graphic Packaging	Citgo Refinery (Citgo - Lake Charles, LA)	МС	
64382	05/21/08	Comp	Citgo Refinery	Citgo Refinery	Graphic Packaging	Citgo Refinery (Citgo - Lake Charles, LA)	МС	
64381	05/20/08	Comp	Citgo Refinery	Citgo Refinery	Graphic Packaging	Citgo Refinery (Citgo - Lake Charles, LA)	MC	
64378	05/19/08	C 6mp	Citgo Refinery	Citgo Refinery	Graphic Packaging	Citgo Refinery (Citgo - Lake Charles, LA)	МС	
64315	05/18/08	В	Citgo Refinery	Citgo Refinery	Graphic Packaging	Citgo Refinery (Citgo - Lake Charles, LA)	МС	
64598	05/18/08	В	Citgo Refinery	Citgo Refinery	Graphic Packaging	Citgo Refinery (Citgo - Lake Charles, LA)	МС	
64597	05/18/08	—В	Citgo Refinery	Citgo Refinery	Graphic Packaging	Citgo Refinery (Citgo - Lake Charles, LA)	MC	. j

Disturb to 3rd



Inspection Report (LOADING)

Subject: CCL 7

Date:

2/5/2009

Our ref.: 129435

usloods

Product: SPENT CAUSTIC

Location: Lake Charles, La / Citgo

Client ref.: TBD

Client:

CES ENVIRONMENTAL SERVICES

Summary of Figures

Bbls @ 60°F Gallons @ 60°F

Shore Measurements Total Shore figures delivered

GSV NSV

8,059.14

8.159.38

8,159.38

0.00

338,483.88

Average API Gravity @ 60°F Shoretanks no(s):

TANK # 182,1ST, TANK #182,2ND

Vessel's Measurements

Vessel's figures before loading (OBQ) Free Water 0.00 Vessel's figures before loading (OBQ) Liquid 39.86 Vessel's figures before loading (OBQ) Non Liquid 0.00 Vessel's figures before loading (OBQ) 39.86 Vessel's figures TCV on board after loading 8,199.24

Vessel's figures TCV loaded Vessel's figures Free Water loaded Vessel's figures GSV loaded

1,674.12 344,368.08 342,693,96 0.00

342,693.96

Cargo stowage Cargo tanks no(s):

CCL 7[1, 2, 3]

Samples

SHORE TANK: 2 QUARTS RUNNING

DOCKLINE: ***2 QUARTS*** - 1X1 QUART AT START AND 1X1 QUART AFTER START

VESSEL: 2 QTS RUNNING

Quality

NO ANALYSIS REQUESTED

Time Loa

2/3/2009	0045	INSPECTOR NOTIFIED OF VESSELS ARRIVAL
	0125	VESSEL ARRIVED AT TERMINAL
	0135	VESSEL DOCKED AT CITGO'S C-SLIP
	0145	INSPECTOR ARRIVED AT TERMINAL
	0235	COMMENCE SHORE STANK # 182 1ST OPENING INSPECTION
	0250	COMPLETED SHORE TANK # 182 OPENING INSPECTION
	0310	COMMENCE BARGE OPENING INSPECTION
	0325	COMPLETED BARGE OPENING INSPECTION
	0600	1X8" CARGO HOSE CONNECTED
	0635	COMMENCE LOADING
	1735	STOPPED LOADING(SHORE TANK EMPTY)
	1850	INSPECTOR NOTIFIED
	1915	INSPECTOR ARRIVED AT TERMINAL

SGS North America Inc.

Oil, Gas & Chemicals Services

4701 E. NAPOLEON SULPHUR, LA 70663 t((337) 625-1455) t((337) 625-1721) www.sgs.com

Member of the SGS Group (Société Générale de Surveillance)



	1940	COMMENCE SHORE TANK # 182 CLOSING INSPECTION
	1955	COMPLETED SHORE TANK # 182 CLOSING INSPECTION
	2000	COMMENCE TRANSFER TO SHORE TANK 182
2/4/2009	0530	1X8" CARGO HOSE DISCONNECTED
2/5/2009	0720	INSPECTOR NOTIFIED
	0750	INSPECTOR ARRIVED AT TERMINAL
	0800	COMPLETED TRANSFER FROM SHORE TANK # 185 TO # 182
	0905	COMMENCE SHORE TANK # 182 OPENING INSPECTION(2ND)
	0920	COMPLETED SHORE TANK # 182 OPENING INSPECTION
	1535	INSPECTOR NOTIFIED
	1610	INSPECTOR ARRIVED
	1715	SHUTDOWN LOADING / AWAITING CRUDE SHIP TO BERTH
	1910	RESUMED LOADING FROM STK 182
	2010	COMPLETED LOADING / MAX. DRAFT
	2040	HOSE DISCONNECTED
	2100	INSPECTOR NOTIFIED
	2125	INSPECTOR ARRIVED
	2130	COMMENCED CARGO INSPECTION
	2150	COMPLETED CARGO INSPECTION
	2220	STK 182 GAUGED AND TEMPED CLOSED
	2300	INSPECTOR DEPARTED

Additional events, Stoppages and Delays

2/5/2009

1715

SHUTDOWN LOADING / AWAITING CRUDE SHIP TO BERTH

1910

RESUMED LOADING FROM STK 182

for SGS Oil, Gas & Chemicals Services

2/6/2009

Shore volume calculated in accordance with:

Vessel volume calculated in accordance with:

Procedures as per applicable MPMS Chapter 3.1a, 7, 8.1 or 8.2, 12.1 or 12.2, 17.1, 17.2, 17.4.

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Page 1 of 2

PORT / TERMINAL: Lake (Charles, La / Citgo	OFFICE: LAKE CHARLES, LA	TEL: (337) 625-1455
VESSEL: CCL 7	VOY#: N/A	INSPECTOR(S): J.L.DYKES	
DATE: 2/3/2009		SGS FILE: 129435	
CARGO: Spent Caustic		CLIENT: CES ENV.	REF: TBN

SGS

TIME LOG

Oil Gas & Chemicals Services Division.

	UU						Oil Gas & Chemicals Services Division.
Top of the second	Z AT LOA	DING		AT TRAI	NSFER		AT DISCHARGE
	Υ	EAR 2009 / MONTH	JAN FEB	MAR	APR MAY	וטנ אטנ	L AUG SEP OCT NOV DE
Date	Hour						
2/3	00:45	INSPECTOR NOTIFIED	OF VESSE	LS ARRI	VAL		
2/3	01:25	VESSEL ARRIVED AT	ERMINAL				
2/3	01:35	VESSEL DOCKED AT O	ITGO'S C-S	SLIP			
2/3	01:45	INSPECTOR ARRIVED	AT TERMIN	AL			
2/3	02:35	COMMENCE SHORE S	TANK # 182	1ST OP	ENING INSPE	CTION	
2/3	02:50	COMPLETED SHORE T	ANK # 182	OPENIN	G INSPECTIO	N	
2/3	03:10	COMMENCE BARGE O	PENING INS	SPECTIC	N		
2/3	03:25	COMPLETED BARGE C	PENING IN	SPECTION	NC		
2/3	06:00	1X8" CARGO HOSE CO	NNECTED				
2/3	06:35	COMMENCE LOADING					
2/3	17:35	STOPPED LOADING(SI	ORE TANK	EMPTY) .	· · · · · · · · · · · · · · · · · · ·	
2/3	18:50	INSPECTOR NOTIFIED				***************************************	
2/3	19:15	INSPECTOR ARRIVED	AT TERMIN	AL.			
2/3	19:40	COMMENCE SHORE TA	NK # 182 C	CLOSING	INSPECTION		
2/3	19:55	COMPLETED SHORE T	ANK # 182 (CLOSING	3 INSPECTIO	V	
2/3	20:00	COMMENCE TRANSFE	R TO SHOR	E TANK	182		
2/4	05:30	1X8" CARGO HOSE DIS	CONNECT	ED			
2/5	07:20	INSPECTOR NOTIFIED				······································	
2/5	07:50	INSPECTOR ARRIVED	AT TERMIN	AL			
2/5	08:00	COMPLETED TRANSFE	R FROM SI	HORE TA	NK # 185 TO	# 182	
2/5	09:05	COMMENCE SHORE TA	NK # 182 C	PENING	INSPECTION	(2ND)	
2/5	09:20	COMPLETED SHORE T	ANK # 182 (OPENING	3 INSPECTIO	1	
2/5	15:35	INSPECTOR NOTIFIED					
2/5	16:10	INSPECTOR ARRIVED					
2/5	17:15	SHUTDOWN LOADING	AWAITING	CRUDE	SHIP TO BE	RTH	
2/5	19:10	RESUMED LOADING FI	ROM STK 18	32			
2/5	20:10	COMPLETED LOADING	/ MAX. DRA	\FT			
2/5	20:40	HOSE DISCONNECTED		······································		·····	
2/5	21:00	INSPECTOR NOTIFIED		<u></u>			
2/5	21:25	INSPECTOR ARRIVED					
2/5	21:30	COMMENCED CARGO	NSPECTIO	N			· · · · · · · · · · · · · · · · · · ·
2/5	21:50	COMPLETED CARGO IN	ISPECTION				
2/5	22:20	STK 182 GAUGED AND	TEMPED C	LOSED			
DE	LAYS AND	STOPPAGES :					
2/5	17:15	SHUTDOWN LOADING	AWAITING	CRUDE	SHIP TO BEF	RTH	
2/5	19:10	RESUMED LOADING FR	IOM STK 18	32			
MES N	AARKED A	RE SUBMITTED TO US.					TIME LOG PAGE 1 OF 2

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PORT / TERMINAL: Lake Charles, La / Citgo	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 7 VOY #: N/A	INSPECTOR(S): J.L.DYKES
DATE: 2/3/2009	SGS FILE: 129435
CARGO: Spent Caustic	CLIENT: CES ENV. REF: TBN

SGS

TIME LOG

Oil Gas & Chemicals Services Division

Z AT LOA	DING	AT TRANSFER	AT DISCHARGE
	EAR 2009 / MONTH		N JUL AUG SEP OCT NOV D
ate Hour	LAIT 2000 / MORTING		
/5 23:00	INSPECTOR DEPARTE	D	
DEL AVO AND	STOPPAGES:		
DELATS AND	STOFFAGES.		
	·		
ES MARKED *	ARE SUBMITTED TO US.		TIME LOG PAGE 2 OF

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TIME LOG PAGE 2 OF 2
Services rendered according to published General Terms and Conditions

Page	# 01	(基)

F-3A			Page (教会 of (報告)
PORT / TERMINAL: Lake	Charles, La / Citgo	OFFICE: LAKE CHARLES, LA	TEL: (337) 625-1455
VESSEL: CCL 7	VOY#: N/A	INSPECTOR(S): J.L.DYKES	
DATE: 2/3/2009		SGS FILE: 129435	
CARGO: Spent Caustic		CLIENT: CES ENV.	REF: TBN

<u> </u>			O I AGE AN	ALISIS HEF	Oil Gas	& Chemicals Se	rvices Division.
✓ LOADING	V-V T	TRANSFER [DISCHARGE	SUMMARY		Type of Voyage	C/P DATE
Load Port/Terminal/Berth		ARRIVED	SAILED	Discharge Port/T	erminal/Berth	ARRIVED	SAILED
VOLUME UNITS		SUPPLIER	RECEIVER	VCF SHORE LOAD	VCF SHORE DISCH	VCF VESSEL LOA	CF VESSEL DISC
☐ BBLS ☐ GALS ☐ M3 [] L				***		
DESCRIPTION API/DENS)TY	TCV	FW	GSV	S&W	NSV	Reference
I. COMPARISON OF SHORE	QUAI	NTITIES IN CUST	ODY TRANSFER				
Bill of Lading 1.		8059.14	0.00	8059.14			(1)
Outturn 2.				-			(2)
Diff. 3.							(3)=(2) - (1)
Diff. % 4.							(4) = (3) / (1) x 100
Recalc. B/L. 5.	(a)		Recalculate if	B/L and O/T use d	ifferent tables.		(5) (a) Vol. Diff.
I I. VESSEL/SHORE QUANTI	TIES A	T () LOAD	PORT(S)				
essel Sailing	A.	8199.24	0.00	8199.24	LIQUID	NON-LIQUID	(A)
OBQ (All)	B.	39.86	0.00	39.86	39.86	0.00	(B)
Loaded	C.	8159.38	0.00	8159.38			(C)≈(A) - (B)
Difference	D.	100.24	0.00				(D)=(C)-[(1) or (5)]
Difference %	E.	1.24%					(E)=(D)/[(1)or(5)]x100
oad Vessel Ratio	F.	1.0124					(F)=(C)/[(1)or(5)]
oad VEF	G.						(G)
Theoretical Shore	Н.						(H)=(C) / (G)
Theoretical Shore Diff.	1.	-8059.14					(I)=(H) - [(1) or (5)]
Theoretical Shore Diff. %	J.	-100.00%					(J)=(i)/[(1) or (5)]x100
I I. VESSEL/SHORE QUANTI	TIES A	T() DISCH	IARGE PORT(S)				3
essel Arrival	K.				LIQUID	NON-LIQUID	IO
ROB (All)	L.						L)
Discharged	М.						(M) = (K) - (L)
Difference	N.						(N) = (2) - (M)
Difference %	0.	**************************************					(O) = (N) / (2) x 100
Discharge Vessel Ratio	P.						(P) = (M) / (2)
Discharge VEF	Q.						(Q)
heoretical Shore	R.						(R) = (M) / (Q)
heoretical Shore Diff.	S.						(S) = (2) · (R)
heoretical Shore Diff. %	T.						(T) = (S) / (2) x 100
II. VESSEL/'S COMPARISON	OF L	OADING AND DIS	CHARGE PORT/S	VCF TABLE M	UST BE CONSIST	FNT	
ransit Difference	U.			,			(U) = (K) - (A)
Difference %	V.				LIQUID	NON-LIQUID	V) = (U) / (A) x 100
BQ/ROB Difference	W.						(W) = (L) - (B)
		TCV Difference (3) -	OBQ (B) + ROB (L)	I IS	&W(1)/GSV(1)]X100	Ţ:	
DJ TCV DIFF :	(Quant		(-,	S&W at Load Port		S&W at Disch Po	
omments :							
repared by :	T:	Title :		Company :		Date Completed :	
convicts CCC OCCC lune 1997 . I	Pau Oc	2003			darad according to r		rme and Conditions

F-1						e Hill of 15
PORT / TERMINAL: Lake Charles,				E CHARLES, LA	TEL (337)	525-1455
VESSEL CCL 7	VOY# N	I/A		: J.L.DYKES		
DATE 2/3/2009			SGS FILE 12		REF TBN	
CARGO Spent Caustic			CLIENT CES		ner IBN	
SGS		SHORE QUA	NTITY SUMM		Gas & Chemicals Se	rvices Division.
✓ AT LOADING ☐ AT TRAN	SFER [AT DISCHARGE	SHORE	TANK (STATIC)	□ мете	R (DYNAMIC)
CUSTODY TRANSFER SAMPLE SH	IORE TAN	K				
API @ 60°F:	L	R.D. 60°F/60°F		Densi	ty Lbs/Gal @	
S&W % VOL:				<u> </u>		
SOURCE OF ANALYTICAL DATA:						·
	·····				***************************************	
	UNITS	TANK # 182 1ST	TANK #182,2ND	TANK/METER	TANK/METER	TANK/METER
TOTAL CALCULATED VOLUME	BBLS	5102.91	2956.23			
FREE WATER	BBLS	0.00	0.00			
GROSS STANDARD VOLUME	BBLS	5102.91	2956.23			
S & W VOLUME	BBLS					
(NET) STANDARD VOLUME	BBLS					
WCF TABLE (I)		V				
GROSS STANDARD WEIGHT						
S & W WEIGHT	1					
(NET) STANDARD WEIGHT						
	UNITS	TANK/METER	TANK/METER	SHORELINE	TOTAL DE	LIVERED
TOTAL CALCULATED VOLUME	BBLS		.,		8059	
FREE WATER	BBLS	······································			0.0	
GROSS STANDARD VOLUME	BBLS				8059	1 .14
S & W VOLUME	BBLS					
NET) STANDARD VOLUME	BBLS					
					🗌 GSV 📋 NSV	SV @
GROSS STANDARD WEIGHT						<u> </u>
S & W WEIGHT						
(NET) STANDARD WEIGHT						

STOWAGE C	D/B VESSEL:	
		B/L DATE:
REMARKS	QUANTITY CONFIRMED	QUANTITY CHANGES YES NO IF YES STATE REASON
with	of	
with	af	
Date	Time	

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F-2						Pag	e SEA of C
PORT / TERMINAL: Lake Charl			OFFICE: L	KE CHARL	ES, LA	TEL: (337)	525-1455
VESSEL: CCL 7	VOY#: N/A		INSPECTOR(s): J.L.DY	KES		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
DATE: 2/3/2009		······································	SGS FILE:				
CARGO: Spent Caustic			CLIENT: CI	S ENV.		REF: TBN	
SGS	VE	SSEL QUA	NTITY SU	MMARY	Oil Gas	& Chemicals Se	rvices Division.
✓ AT LOADING ☐ AT TR	RANSFER AT	DISCHARGE	☐ CRUD	E OIL		✓ PROD	ucts
☐ API @ 60°F:	□ R .	D. 60°F/60°F			Density	Lbs/Gal @	
S&W % VOL:							
SOURCE OF ANALYTICAL DAT	A:		***************************************	***************************************			
	<u> </u>	LUME	WCF)	····	WEIGHT	
	BBLS	U.S. GALS	,	POUN	DS/KG	LONG TONS	METRIC TONS
VESSEL'S QUANTITIES	V.E.F. COI	RRECTED :	YES	NO	V	ÆF:	
TOTAL CALCULATED VOL	8199.24	344368.08	3				
FREE WATER	0.00	0.00				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
GROSS STANDARD VOLUME	8199.24	344368.08	3				
S & W VOLUME							
NET) STANDARD VOLUME				_			
		<u> </u>				· · · · · · · · · · · · · · · · · · ·	<u> </u>
ОВО			ROB				
IQUID MATERIAL	39.86	1674,12					T
NON-LIQUID MATERIAL	0.00	0.00					
REE WATER	0.00	0.00					
TOTAL	39.86	1674.12					
							1
✓ LOADED QUANTIT	TES.		DISCHARGED	HIANTITIES			***************************************
TOTAL CALCULATED VOL	8159.38	342693.96					
REE WATER	0.00	0.00				······································	
GROSS STANDARD VOLUME	8159.38	342693.96		+			
& W VOLUME	3,00.00	U-LU30.30					
						······································	
NET) STANDARD VOLUME	······································						
ARE SLOPS INCLUDED IN CAL	CULATIONS	YES	NO NO		NO SL	OPS ON BOARD	
STOWAGE O/B VESSEL:					····		
REMARKS:							

1.016	

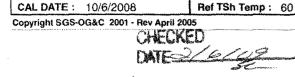
F-10			Page (1) of (2)
PORT / TERMINAL: Lake Charles, La	/ Citgo	OFFICE LAKE CHARLES, LA	TEL (337) 625-1455
VESSEL CCL 7	VOY# N/A	INSPECTOR(S): J.L.DYKES	SGS FILE 129435
CARGO Spent Caustic		CLIENT CES ENV.	REF TBN

CANGO Spenico	austic					CELLETT OF C	LINY.	1 (m) 1 (1) A			
CCC			SHOR	E TANK	MEA	SUREMENT	S (STATIC)				
ODO		Y	AT LOADING		TA [TRANSFER	AT DISCHARGE	Oil Gas & Chemicals S	ervices Division.		
SHORETANK#	182	REF HEI	GHT: EXT.FLO	ATER	G/	AUGE UNITS	🗹 FT-IN 🗀 FT 🗀	MM OTHER:			
		ME: 2:50	CLOSE DAT	E : 2/3/200	NIT 8	ME: 19:55		OPEN	CLOSE		
OBS. REF. HEIGHT	§ INNAGE	# WATER INNAGE	OBS. REF. HEIGHT	§ INNA	GE	«WATER INNAGE	INSPECTOR:	J.L.DYKES	J.L.DYKES		
26-10-3/4	23-4-1/2	0-0	10-0	7-6-1.	/8	0-0	WITNESS:				
							API @ 60°F/ DENS. @ 15°				
							SOURCE				
							AMBIENT AIR TEMP				
							TEMP OF TANK SHELL	55	48		
						·	AVG TEMP (0.5°F)	63.5	54.5		
MEASUREMENT	TS TAKEN IN ACC	ORDANCE WITH	*				AVG INNAGE	23-4-1/2	7-6-1/8		
FREE WATER D	ETERMINED IN AC	CORDANCE WITH	:				AVG WATER INNAGE	0-0	0-0		
TEMPERATURE	S TAKEN IN ACCO	RDANCE WITH	:	API MPMS 7.6.4			VOLUME UNITS 🗹 BB	S M3 OTHER			
VOLUME CALC	ULATED IN ACCOR	RDANCE WITH	:				TABLE VOLUME **	7482.86	2379,95		
PROD TEMP	63.3 x 0.	875 = 55.3875	PROD TEMP	54.3 x 0.875 = 47.5125		875 = 47.5125	FREE WATER	0.00	0.00		
(+) AIR TEMP	x 0.	125 =	(+) AIR TEMP	x 0.125 =		125 =	OBSERVED VOLUME	7482.86	2379.95		
ANK SHELLTEM	PERATURE:	= 55	TANK SHELL TE	MPERATUR	}E	= 48	TANK SHELL CORR.	1.00000	1.00000		
ROOF CORRECT	ION INFO - STAND	ARD API:							OBSERVED VOLUME	7482.86	2379.95
CRITICAL ZONE F	RANGE FROM 6-	3 TO 7-8	TO 7-8 ROOF LEG M HIGH LO		LOW	ROOF CORRECTION	0.00	0.00			
		OF	PEN		CLC	OSE	GROSS OBSERVED VOL.	7482.86	2379.95		
AVG INN/ULL IN (CRITICAL ZONE	YES	NO NO	☐ Y	ES	□ NO	^VCF TABLE : (t)	1.00000	1.00000		
SIDEGAUGE/ATG		23-8-5/8	23-4-7/16		7-5-13/	16 6-10	GROSS STANDARD VOL.	7482.86	2379.95		
TEMPERATURES	^{, 6} E	# PROBE	MERCURY	# y p	ROBE	MERCURY	DIFFERENCE	510	2.91		
* ACTION TAKEN	J:	✔ U 63.6 ✔ M	63.3 🗶 L 63.0	🗌 ບ	V M	54.3 🔲 L	CUSTODY TRANSFER SAM	PLE:			
	OTHER*			M			API @ 60°F/ DE				
			ОТНЕ	₹*		S&W% VOL.	<u> </u>				
SIDETEMP/REMO	OTE	42	62.4	42 63		63	S & W VOLUME				
PROBE WAS CH	CKED PRIOR TO	USE YES	NO III	NOT USE)	**************************************	NET STANDARD VOLUME		***************************************		
SAMPLING	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		n D _L	□υ	ON	ı [] L	WCF TABLE : (t)		<u> </u>		
* ACTION TAKEN	! :	Dr De	y R	□ r	□ в	□ A	GROSS STANDARD WT.				
		OTHER X		OTHE	₹*		NET STANDARD WEIGHT		······································		
AT ULLAGES:							WEIGHT UNITS LT	MT LBS	OTHER;		
CAL DATE: 10	/6/2008	Ret TSh Temp :	60	OP TEM	p .	······································	** IS TABLE VOLUME IN S	BBLS M3	OTHER:		

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F-10								Page 2 of 2
PORT / TERMINA	L: Lake Charles,	La	/ Citgo		OFFICE	_AKE CHARLES, LA	TEL (337) 625-14	55
VESSEL CCL 7			VOY# N/A		INSPECTO	R(S): J.L.DYKES	SGS FILE 129435	
CARGO Spent C	austic				CLIENT (CES ENV.	REF TBN	
SGS		¥	SHOR AT LOADING	person	ASUREME T TRANSFER	ENTS (STATIC) at discharge	Oil Gas & Chemical	s Services Division.
SHORETANK #	182	REF HEI	GHT: EXT.FLO	ATER (GAUGE UNITS	Ø FT-IN □ FT	MM OTHER:	
OPEN DAT	E: 2/5/2009 T	IME: 9:20	CLOSE DAT	E: 2/5/2009 T	IME: 22:20		OPEN	CLOSE
OBS. REF. HEIGHT	§ INNAGE	= WATER INNAGE	OBS. REF. HEIGHT	§ INNAGE	× WATER IN	NAGE INSPECTOR:	J.L.DYKES	BELLON
20-4-1/8	17-10	0-0	10-1-3/4	7-7-3/4	0-0	WITNESS:		

UUU		Y	AT LOADING	A	TTRANSFER	AT DISCHARGE	Oil Gas & Chemicals S	ervices Division.	
SHORETANK # 1	82	REF HEI	GHT: EXT.FLO	ATER	GAUGE UNITS	M FT-IN II FT II	MM OTHER:		
		ME: 9:20			TIME: 22:20		OPEN	CLOSE	
OBS. REF. HEIGHT §	INNAGE	# WATER INNAGE	OBS. REF. HEIGHT	§ INNAGE	×WATER INNAGE	INSPECTOR:	J.L.DYKES	BELLON	
20-4-1/8	17-10	0-0	10-1-3/4	7-7-3/4	0-0	WITNESS:			
						API @ 60°F/ DENS. @ 15°			
						SOURCE			
						AMBIENT AIR TEMP			
						TEMP OF TANK SHELL	56	54	
						AVG TEMP (0.5°F)	63.5	62.0	
§ MEASUREMENTS	S TAKEN IN ACC	ORDANCE WITH	:			AVG INNAGE	17-10	8-8-0-0	
¤ FREE WATER DE	TERMINED IN AC	CORDANCE WITH	;			AVG WATER INNAGE	0-0	0-0	
# TEMPERATURES	TAKEN IN ACCO	RDANCE WITH	*	API MPMS 7.6.4		VOLUME UNITS 🗹 BB	LS M3 OTHER:		
^ VOLUME CALCU	LATED IN ACCOR	RDANCE WITH	:			TABLE VOLUME **	5708.91	2752.68	
PROD TEMP	63.7 x 0.	8 75 = 55.7375	PROD TEMP	62.1 x	0.875 = 54.3375	FREE WATER	0.00	0.00	
(+) AIR TEMP	x 0.	125 =	(+) AIR TEMP	x 0.125 =		OBSERVED VOLUME	5708.91	2752.68	
TANK SHELLTEMP	ERATURE:	≠ 56	TANK SHELL TE	MPERATURE	= 54	TANK SHELL CORR.	1.00000	1,00000	
ROOF CORRECTIO	ON INFO - STAND	ARD API:				OBSERVED VOLUME	5708.91	2752.68	
CRITICAL ZONE RA	ANGE FROM 6-	3 TO 7-8	ROOF I	LEG 🗹 HIG	H 🖺 LOW	ROOF CORRECTION	0.00	0.00	
		OP	EN	С	LOSE	GROSS OBSERVED VOL.	5708.91	2752.68	
AVG INN/ULL IN CI	RITICAL ZONE	YES	NO	YES	□ NO	^VCF TABLE : (t)	1.00000	1.00000	
SIDEGAUGE/ATG		17-2 1	7-9-7/8	7-7-1/8 / 8-2-13/16		GROSS STANDARD VOL.	5708.91	2752.68	
TEMPERATURES *	·F	# PROBE	MERCURY	# V PROBE	MERCURY	DIFFERENCE 2956.23			
* ACTION TAKEN	> ·	✔ U 63.6 🗌 M	☑ L 63.7		M IL	CUSTODY TRANSFER SAMPLE:			
				✓ M 62.1		API @ 60ºF/ DE			
OTHER*			OTHER*		S & W % VOL.				
SIDETEMP/REMOTE 44 63.8					S & W VOLUME				
PROBE WAS CHECKED PRIOR TO USE YES NO			NOT USED	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	NET STANDARD VOLUME	·			
SAMPLING		O U		Ov O	M []L	WCF TABLE : (t)			
* ACTION TAKEN	*	Пт Пв	∠ R	IT D	B CR	GROSS STANDARD WT.			
		OTHER X2		OTHER*		NET STANDARD WEIGHT			
AT ULLAGES :						WEIGHT UNITS LT	MT LBS	OTHER:	
CAL DATE: 10/6/2008 Ref TSh Temp: 60			OP TEMP:	***************************************	** IS TABLE VOLUME IN BBLS M3 OTHER:				
						 	······································		



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F-15											P.	ige Sile of	· 李九年
	TEDMINIA) .	l aka Charlas	1.0	/ Cir	*^		OFFICE: LAK	E CHARLES	ΙΛ	TEL: (337	***************************************	7202314	10391-1
PORT / TERMINAL: Lake Charles, La / Citgo VESSEL: CCL 7 VOY #: N/A							INSPECTOR(S)			SGS FILE:	_	,,, 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	$\overline{}$
DATE:		009 CARGO:	Spent Caustic	***************************************			CLIENT: CES		······································	REF: TBN	***************************************		$\neg \neg$
00	50		Opon Outon		SEL MEAS	SUREMENT	<u> </u>		CLOSE / F	ESTRICTED	**************************************		
5 (6 1				ARRIVAL	r	EPARTURE	iso Of Eli	OLOGE / 1		Chemicals Se	ervices Division.	
	✓ AT L	DADING	AT TRANS	HIPMENT	AT DISC	HARGE	✓ CAR	GO TANKS	BALLA	ST TANKS	□ NO	N/OTHER CARG	0
UNITS :	· · · · · · · · · · · · · · · · · · ·	FT-IN	Ü FT		ММ	OTHER:		UNITS: 🗹	BBLS	U.S. GALS	M₃ □	OTHER:	
TANK #	REFERENCE HEIGHT	OBSERVED REFERENCE HEIGHT	¤ ULLAGE	WATER INN	TEMPERATURE § PROBE	S°F AVG. TEMP	CORRECTED MEASURE	TOTAL OBSERVED VOLUME	FREE WATER	GROSS OBSERVED VOLUME	^ V.C.F.	GROSS STANDARD VOLUME	*
1	15-7	115-1-11	4-6	0-0	62.2	62.2	11-1	2851.64	0.00	2851.64	1.00000	2851.64	С
2	15-7		4-11-3/4	0-0	62.6	62.6	10-7-1/4	2774.10	0.00	2774.10	1.00000	2774.10	С
3	15-7		5-9	0-0	62.6	62.6	9-10	2573.50	0.00	2573.50	1.00000	2573.50	С
					<u> </u>				<u> </u>				
		ļ	ļ										
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	<u> </u>								 			 	
	 	<u> </u>			<u> </u>		<u> </u>				-		+
	-								+				+
PROBE	L WAS CHECKE	D PRIOR TO US	E V YE	S N	O NO.	T USED	TOTALS	8199.24	0.00	8199.24		8199.24	+
GAUGE	LOCATION	: Y STANE	PIPE	G.H. on	Expansion Trus	nk	CORRECTED MEASURE: w = Wedge corrected, t = Trim corrected						
	<u> </u>	OTHER	₹:	······································	······································	**************************************	API @ 60F / DENSITY @ 15C SOURCE :						
* GAU	GE POSITIO	N: C = Center	of tank F = Fo	rward of Ce	nter A = Aft of 0	Center	S & W - VOL %: SOURCE:						
SAMPL	ES DRAWN	: 6X1 QT RU	JNNING				S&W-VOL			WCF TAI	BLE : (t)	***************************************
							NET STANDA	RD VOLUME					
BALLA	ST TANKS F	ERMANENT	YES I	F 🗀 NO	SEE F-15 BALL	AST TANKS)	GROSS STAN	DARD WEIGH	T				
SEASL	ICTION SEA	L #'S :					NET STANDA						
DRAFT	: FWD (P) 9-6	AFT (P)	9-6	LIST :	⁹ (P) / (S	TOTAL CALC	VOL. DEPAR	TURE			8199.24	
		S) 9-6		9-6	······································		REMARKS :	57 C 4 W P P 18 C - 2 2	00011/05				***********
SEA	A CONDITIO	N: CALMINE					^ VOLUME CALCULATED IN ACCORDANCE WITH						
STEVE BELLON							□ LIQUID LEVEL GAUGES IN ACCORDANCE WITH API MPMS 17.2.5.2						

INSPECTOR

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DATE

VESSEL'S STAFF

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API MPMS 17.2.5.3

STEMPERATURE DETERMINATION IN ACCORDANCE WITH

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F-16												Page	at of the
PORT / TERMINAL: Lake Charles, La / Citgo						OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455							
VESSEL	:CCL 7				VOY #: N/	Α		INSPECTOR(S	s): J.L.DYKES		SGS FILE	: 129435	
DATE:	2/3/20	09 CARGO:	Spe	nt Caustic				CLIENT: CE	S ENV.		REF: TB	N	
SC	S					OBQ DO NOT USE V.			SUREMENT IS NOT TAKEN		Oil Gas &	Chemicals Servic	es Division.
UNITS :	Y F	T-IN		FT	□ MM		THER:		UNITS: BI	BLS	U.S. GALS	M³ O	THER:
TANK #	REFERENCE HEIGHT	OBSERVED REFERENC E HEIGHT	*	OBSERVED INNAGE	FREE WATER INNAGE	NON-LIQUID INNAGE	AVG. TEMP	CORRECTED MEASURE	TOTAL OBSERVED VOLUME	^ V.C.F.	FREE WATER VOLUME	NON-LIQUID VOLUME	LIQUID VOLUME
1C		15-7-1/2	С	0-0-1/2	0-0	0-0		0-0-1/2	39.86		0.00	00.0	39.86
2C		15-7-3/4	С	0-0	0-0	0-0		0-0	0.00		0.00	0.00	0.00
3C		15-7-1/2	C	0-0	0-0	0-0		0-0	0.00		0,00	0.00	0.00
		<u> </u>	T										
			Π										
			Г										
			Π										
			Π										
^ VC	LUME CALCUI	ATED IN ACCO	RDA	NCE WITH				TOTALS	39.86		0.00	0.00	39.86
On behalf of our client(s) we would like to bring to your attention that in our opinion : Bbls of LIQUID MATERIAL Bbls of NON-LIQUID MATERIAL						ERIAL GAUGE LOCATION : ☐ STANDPIPE ☐ G.H. on Expansion trunk MATERIAL OTHER : 6" GAUGE HATCH							
rem	ains on board y	our vessel. To ti	ne ex	tent we are awar	e of contractua	ı		* GAUGE POSITION: C = Center of tank F = Forward of Center A = Aft of Center					Center
relat	tionships, this r	naterial belongs	to ou	ır client(s) and si idicate your reas	nould be pumpe			OBQ SAM	IPLED 🗆	YES	NO IF NO	REASON	
In a	ny event, we ha		clien	t(s) of the above		right to seek		000 TES		Vro.	120 12° 120°	25 cm 4 Ch Ch B 5	
Stat	ements with req	gards to flowabil	ity ar	nd similiar adviso	ry services exp	oress personal		OBQ TES	1ED	YES 🗆	NO IF NO	HEASON	**************************************
Opir	nons without fe	sponsibility for S	, uo.	·				ROB SAM	IPLED	YES	NO IF NO	REASON	
		***************************************		······································								**************************************	
								DRAFT:	FWD (P)		AFT (P)	LIST	: ² (P) / (S)

INSPECTOR

(S)

SEA CONDITION:

VESSEL SOITH.

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DATE

VESSEL'S STAFF

EPAHO081001672

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(S)



To: Jenny Rust SGS REF NO: 132373

CES ENVIORMENTAL TRIP#

SUMMARY OF FINDINGS

OPERATION

DISCHARGE FROM THE CCL 7 TO SHORE TANK(S) 606, 607 AT KMTEX, PORT ARTHUR, TX ON 3/2/2009 OF A CARGO DESCRIBED AS SULFIDIC CAUSTIC

QUANTITY

		DELIVERED (1)	RECEIVED (2)	DIFFERENCE	PERCENT
TOV	BARRELS	5,699.357	5,526.214	173.143	3.038
	U.S. GALLONS	239,373.000	232,101,000	7,272,000	3.038

- Delivered quantity based on barge figures
 Received quantity based on shore tank(s) 606, 607
 Arrival: 5,699.36 GSV BBLS
- 4. ROB: 0.00 GSV BBLS

TIME LOG

3/2/2009	16:18	INSPECTOR NOTIFIED
	17:00	BARGE ARRIVED
	17:10	BARGE DOCKED
	17:12	INSPECTOR ARRIVED
	17:12	COMMENCE CARGO INSPECTION
	18:00	COMPLETE CARGO INSPECTION
	18:30	SHORE TANK 606 GAUGED OPEN
	18:50	SHORE TANK 607 GAUGED OPEN
	18:50	CARGO HOSE CONNECTED-1X8"
	20:05	COMMENCE DISCHARGE
	20:20	INSPECTOR DEPARTED
	22:30	INSPECTOR NOTIFIED
	23:21	INSPECTOR ARRIVED
	23:45	COMPLETE DISCHARGE BY TANKERMAN
	23:45	COMMENCE ROB INSPECTION
	23:58	COMPLETE ROB INSPECTION
3/3/2009	00:01	CARGO HOSE DISCONNECTED
	00:30	SHORE TANK 606 GAUGED CLOSED
	00:45	SHORE TANK 607 GAUGED CLOSED
	01:50	PRELIMINARY CALCULATIONS OBSERVED
	02:00	DISPATCH NOTIFIED OF SHORE/VESSEL DIFFERENCE
	02:20	SHORE TANK 606 RE-GAUGED
	02:40	SHORE TANK 607 RE-GAUGED
	03:15	COMPLETE PAPERWORK
	03:20	INSPECTOR DEPARTED

Date: 3/3/2009

SGS North America Inc.

Oil, Gas & Chemicals Services

t(409-727-1035) www.sgs.com

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Shore volume calculated in accordance with:

Vessel volume calculated in accordance with:

Definition of Terms as per MPMS Chapter 1.

Procedures as per applicable MPMS Chapter 3.1a, 7, 8.1 or 8.2, 12.1 or 12.2, 17.1, 17.2, 17.4.

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Inspection Report (Loading)

Subject: CCL 7

Date:

3/5/2009

Our ref.: 133562

Product : SPENT CAUSTIC

Location: CITGO / LAKE CHARLES Client: CES Environmental

Client ref.: TBD

Official Court Environmental

Summary of Figures	Bbls @ 60°F	Gallons @ 60°F	
Shore Measurements			
Total Shore figures delivered GSV	7,879.95	330,957.90	
Average API Gravity @ 60°F NSV			
Shoretanks no(s): VESSEL W/VEF			
Vessel's Measurements			
Vessel's figures before loading (OBQ) Free Water	0.00		
Vessel's figures before loading (OBQ) Liquid	0.00		

Vessel's figures before loading (OBQ) Non Liquid 0.00 Vessel's figures before loading (OBQ) Total 0.00 Vessel's figures TCV on board after loading 335,094.90 7,978.45 Vessel's figures TCV loaded 7,978.45 335,094.90 Vessel's figures Free Water loaded 0.00 0.00 Vessel's figures GSV loaded 7,978.45 335,094.90

Cargo stowage Cargo tanks no(s):

CCL 7[1C, 2C, 3C]

Samples - Shore Tank - 1x1 Quart Running

Barges - 2x1 Quart Running per Cargo Tank

Quality - None Requested

Time Log

3/4/2009	1735	BARGE ARRIVED
	1745	BARGE DOCKED
	1945	INSPECTOR NOTIFIED
	2045	INSPECTOR ARRIVED
	2100	COMMENCED PRE-DECK INSPECTION
	2110	COMPLETED PRE-DECK INSPECTION
	2205	S/T 182 GAUGED OPEN AND SAMPLED
	2250	CARGO HOSE CONNECTED
	2305	COMMENCED LOADING
3/5/2009	1320	INSPECTOR NOTIFIED
	1320	DOWN FOR SHORETANK GAUGING, S/T 182 WENT ACTIVE
	1420	INSPECTOR ARRIVED
	1525	COMMENCED INSPECTION ON BARGE
	1555	COMPLETED INSPECTION ON BARGE
	1930	RESUMED LOADING CCL 7
	2200	INSPECTOR NOTIFIED
	2250	COMPLETED LOADING
	2300	INSPECTOR ARRIVED

SGS North America Inc.

Oil, Gas & Chemicals Services

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2300 2330

COMMENCED FINAL INSPECTION COMPLETED FINAL INSPECTION

for SGS Oil, Gas & Chemicals Services

3/6/2009

Shore volume calculated in accordance with:

Vessel volume calculated in accordance with:

ASTM D 1250-04

Procedures as per applicable MPMS Chapter 3.1a, 7, 8.1 or 8.2, 12.1 or 12.2, 17.1, 17.2, 17.4.

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PORT / TERMINAL: Lake Cha	rles, La / Citgo	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455	
VESSEL: CCL 7	VOY#:	INSPECTOR(S): TM	
DATE: 3/5/2009		SGS FILE: 133562	
CARGO: SPENT CAUSTIC		CLIENT: REF:	

SGS

TIME LOG

Oil Gas & Chemicals Services Division.

5	Z AT LOAI	DING		☐ AT TRA	NSFER			AT DISCHARGE						
	Y	EAR 2009 / MONTH	JAN	FEB MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	
Date	Hour													
3/4	17:35	BARGE ARRIVED												
3/4	17:45	BARGE DOCKED												
3/4	19:45	INSPECTOR NOTIFIE	D											
3/4	20:45	INSPECTOR ARRIVE)											
3/4	21:00	COMMENCED PRE-D	ECK INS	PECTION										
3/4	21:10	COMPLETED PRE-DE												
3/4	22:05	S/T 182 GAUGED OP	EN AND S	SAMPLED										
3/4	22:50	CARGO HOSE CONN	ECTED		-/1									
3/4	23:05	COMMENCED LOAD!	NG											
3/5	13:20	INSPECTOR NOTIFIE												
3/5	13:20	DOWN FOR SHORET		JGING, S/T	182 WEN	IT ACT	VE							
3/5	14:20	INSPECTOR ARRIVE												
3/5	15:25	COMMENCED INSPE												
3/5	15:55	COMPLETED INSPEC		BARGE										
3/5	19:30	RESUMED LOADING												
3/5	22:00	INSPECTOR NOTIFIE									***************************************		**************************************	
3/5	22:50	COMPLETED LOADIN		· · · · · · · · · · · · · · · · · · ·				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
3/5	23:00	INSPECTOR ARRIVE		···			···			·	***************************************			
3/5	23:00	COMMENCED FINAL I												
DE	LAYS AND	STOPPAGES:												
		RE SUBMITTED TO US. June 1997 - Rev Oct 2003								TIME LO		E ? O	- 12 A	

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PORT / TERMINAL: Lake C	harles, La / Citgo	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 7	VOY #:	INSPECTOR(S): TM	
DATE: 3/5/2009		SGS FILE: 133562	
CARGO: SPENT CAUSTIC		CLIENT: REF:	

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<u> </u>			VUYAGE AN	ALYSIS REP	Oil Gas	& Chemicals Ser	vices Division.
LOADING		TRANSFER	DISCHARGE	SUMMARY		Type of Voyage	C/P DATE
Load Port/Terminal	/Berth	ARRIVED	SAILED	Discharge Port/T	erminal/Berth	ARRIVED	SAILED
L.C./ CITGO/ C-SL	IP.	3/4/2009	3/5/2009				
VOLUME UNITS		SUPPLIER	RECEIVER	VCF SHORE LOAD	VCF SHORE DISCH	VCF VESSEL LOAD	/CF VESSEL DISC
🗸 BBLS 🗌 GALS					Í		
DESCRIPTION A	API/DENSITY	тсч	FW	GSV	S&W	NSV	Reference
I. COMPARISON C	F SHORE QUA		TODY TRANSFER				
Bill of Lading 1.		7879.95	0.00	7879.95			(1)
Outturn 2.							(2)
Diff. 3.							(3)=(2) - (1)
Diff. % 4.							$(4) = (3) / (1) \times 100$
Recalc. B/L 5.	(a)		Recalculate if	B/L and O/T use d	ifferent tables.		(5) (a) Vol. Diff.
II. VESSEL/SHORE	QUANTITIES		D PORT(S)				
Vessel Sailin		. 7978.45	0.00	7978.45	LIQUID	NON-LIQUID	A)
OBQ	(All) B	. 0.00	0.00	0.00	0.00	0.00	(B)
Loade	d C	. 7978.45	0.00	7978.45			(C)=(A) · (B)
Differe	ence D	. 98.50	0.00	98.50			(D)=(C)-[(1) or (5)]
Differe	ence % E	. 1.25%		1.25%			(E)≈(D)/((1)or(5)]x100
Load Vessel Ratio	F	. 1.0125					(F)=(C)/[(1)or(5)]
Load VEF	G.	1.01250					(G)
Theoretical Shore	H.	. 7879.95					(H)=(C) / (G)
Theoretical Shore Di	iff. I.	0.00					(l)=(H) - {(1) or (5)}
Theoretical Shore Di	iff. % J.	0.00%					(J)=(I)/[(1) or (5)]x100
II. VESSEL/SHORE	QUANTITIES	AT () DISC	HARGE PORT(S)				•
Vessel Arrival	K,				LIQUID	NON-LIQUID	(K)
ROB ((All) L.						L)
Discha	arged M.						(M) = (K) - (L)
Differe	nce N.	<u> </u>					(N) = (2) - (M)
Differe	nce % O.						(O) = (N) / (2) x 100
Discharge Vessel Ra	tio P.						(P) = (M) / (2)
Discharge VEF	Q.						(Q)
Theoretical Shore	R.						(R) = (M) / (Q)
Theoretical Shore Di	ff. \$.						(S) = (2) - (R)
Theoretical Shore Di							(T) = (S) / (2) x 100
III. VESSEL/'S COM	PARISON OF I	LOADING AND DI	SCHARGE PORT/S) VCF TABLE MI	JST BE CONSISTI	ENT	
Transit Differe					30,10,0		(U) = (K) - (A)
Differe	nce % V.				LIQUID	NON-LIQUID	V) = (U) / (A) x 100
DBQ/ROB Differe	nce W.						(W) = (L) - (B)
ADJ TCV DIFF :	(Qua	TCV Difference (3) ntity) / 0.00	- OBQ (B) + ROB (L)	[S. S&W at Load Port	&W(1)/GSV(1)]X100	[S S&W at Disch Por	&W(2)/GSV(2)]X100 t:
Comments :							
							A /# iA A A A
Prepared by: TIM N			SPECTOR	Company:		Date Completed :	3/5/2009
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EPAHO081001678

PORT / TERMINAL: Lake Charles,	La / Cito	9	OFFICE LAN	E CHARLES, LA	TEL (337) 6	325-1455
VESSEL CCL 7	VOY#		INSPECTOR(S)	, , , , , , , , , , , , , , , , , , , 	······································	
DATE 3/5/2009			SGS FILE 10	33562		
CARGO SPENT CAUSTIC			CLIENT CES	S Environmental	REF	www.w
SGS		SHORE QUA	NTITY SUMN		ias & Chemicals Se	rvices Division.
AT LOADING AT TRANS	SFER 🗌	AT DISCHARGE	✓ SHORE	TANK (STATIC)	☐ METE	R (DYNAMIC)
CUSTODY TRANSFER SAMPLE						
API @ 60°F:	Ĺ.	R.D. 60°F/60°F		Densit	y Lbs/Gal@	
S&W % VOL:	****					
SOURCE OF ANALYTICAL DATA:	va					
	UNITS	IVESSEL W/VEF	TANK/METER	TANK/METER	TANK/METER	TANK/METER
TOTAL CALCULATED VOLUME	<u> </u>		IMMONETER	1 - VI ALV (AIC" 1 C'U	1 CHAIN MILTER	(ALKENIAIT I CU
	BBLS	7879.95				
FREE WATER	BBLS	0.00				
GROSS STANDARD VOLUME	BBLS	7879.95				
S & W VOLUME	BBLS					
NET) STANDARD VOLUME	BBLS					
VCF TABLE (1)						
GROSS STANDARD WEIGHT						
& W WEIGHT			· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·
NET) STANDARD WEIGHT						
	<u></u>	<u></u>				
	UNITS	TANK/METER [TANK/METER	SHORELINE	TOTAL DE	LIVERED
OTAL CALCULATED VOLUME	BBLS				7879	
FREE WATER						
	BBLS	· · · · · · · · · · · · · · · · · · ·			0.0	
GROSS STANDARD VOLUME	BBLS				7879	J.Y5
S & W VOLUME	BBLS					
NET) STANDARD VOLUME	BBLS					
					GSV NSV	SV @
ROSS STANDARD WEIGHT						
& W WEIGHT						
NET) STANDARD WEIGHT						
	1					· · · · · · · · · · · · · · · · · · ·
STOWAGE O/B VESSEL:						
STOWAGE O/D VESSEL:			1	0.0175		
				B/L DATE:		

Date Time

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with with

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PORT / TERMINAL: Lake Char			OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455					
VESSEL: CCL 7 DATE: 3/5/2009	VOY #:		INSPECTOR(S): TM SGS FILE: 133562					
CARGO: SPENT CAUSTIC		·	CLIENT:	302	REF:			
SGS	VI	ESSEL QUA	NTITY SUMI	VIARY	as & Chemicals Se	rvices Division		
✓ AT LOADING □ AT TI	RANSFER AT	DISCHARGE	☐ CRUDE O		PROD			

API @ 60°F:		.D. 60ºF/60ºF		☐ Densit	y Lbs/Gal @			
S&W % VOL: SOURCE OF ANALYTICAL DAT	'A:							
	BBLS	LUME T U.S. GALS	(t 8)	POUNDS	WEIGHT LONG TONS	METRIC TONS		
VESSEL'S QUANTITIES	<u> L</u>	<u> L</u>	Princes years	<u> </u>		(AIR)		
TOTAL CALCULATED VOL		RRECTED:	YES 🗆	NO	VEF:	· · · · · · · · · · · · · · · · · · ·		
	7978.45	335094.90	,					
FREE WATER	0.00	0.00						
GROSS STANDARD VOLUME	7978.45	335094.90	9					
S & W VOLUME	•							
NET) STANDARD VOLUME								
✓ OBQ			ROB					
IQUID MATERIAL	0.00	0.00	8.96200	0.00	0.000	0.000		
ON-LIQUID MATERIAL	0.00	0.00	8.96200	0.00	0.000	0.000		
REE WATER	0.00	0.00	8.96200	0.00	0.000	0.000		
OTAL .	0.00	0.00	8.96200	0.00	0.000	0.000		
	<u> </u>	<u> </u>			<u> </u>			
[72]						······································		
LOADED QUANTIT	TIES	<u></u>	DISCHARGED QUA	INTITIES				
TOTAL CALCULATED VOL	7978.45	335094.90						
REE WATER	0.00	0.00						
ROSS STANDARD VOLUME	7978.45	335094.90						
& W VOLUME								
NET) STANDARD VOLUME		1						
NET) STANDARD VOLUME ARE SLOPS INCLUDED IN CAL	CULATIONS	YES	✓ NO	O NO :	SLOPS ON BOARD	i		
ARE SLOPS INCLUDED IN CAL		YES	✓ NO	O NO	SLOPS ON BOARD			
		YES	☑ NO	□ NO:	SLOPS ON BOARD			

Services rendered according to published General Terms and Conditions

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PORTY TERMINAL Lake Charles, La	F-15											Pa	ge mile of	
DATE: SIN 2009 CARGO: SPENT CAUSTIC STATEM STATEM OPEN CLOSE / RESTRICTED CLO	PORT/	TERMINAL:	Lake Charles,	La	/ Citg	0	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455							
VESSEL MEASUREMENT SYSTEM Proper CLOSE / RESTRICTED Oil Gas & Chemicals Services Division.	VESSEL	CCL 7			VOY	#:	INSPECTOR(S):	TM		SGS FILE:	133562			
ARRIVAL O Gas & Chemicals Services Division.	DATE:	3/5/2	009 CARGO :	SPENT CAU	STIC			CLIENT:			REF:			
Main Other	CL	2C			VES	SEL MEASUF		SYSTEM	✓ OPEN	CLOSE / R	ESTRICTED			
UNITS:		JQ	······································			ARRIVAL	Y 0			patients -				
TANK # REFERENCE DISSERVED				AT TRANS	HIPMENT	general control				***************************************		pi;///q{		
HEIGHT H				······		·	·							
2C 15-7-0/0 15-7-0/0 5-0-0/0 NIL 68.5 68.5 10-7-0/0 2768.69 0.00 2768.69 3	TANK #	HEIGHT	REFERENCE	" ULLAGE		1		MEASURE	OBSERVED	WATER	OBSERVED		STANDARD	_
3C 15-7-00 15-7-00 6-3-1/2 NIL 68.6 68.6 9-3-1/2 2433.36 0.00 2433.36 15-7-00 15-7-00 6-3-1/2 NIL 68.6 68.6 9-3-1/2 2433.36 0.00 2433.36	1C	15-7-0/0	15-7-0/0	4-10-0/0	<u> </u>	68.7	68.7			<u> </u>				
PROBE WAS CHECKED PRIOR TO USE VES W NO NOT USED TOTALS 7978.45 0.00 7978.45 GAUGE LOCATION: STANDPIPE G.H. on Expansion Trunk CORRECTED MEASURE: w = Wedge corrected, 1= Trim corrected OTHER: API @ 60F / DENSITY @ 15C SOURCE: SAMPLES DRAWN: 2X1QT PER TANK S & W - VOL. NET STANDARD VOLUME BALLAST TANKS PERMANENT V YES IF NO (SEE F-15 BALLAST TANKS) GROSS STANDARD WEIGHT SEASUCTION SEAL #S: NET STANDARD WEIGHT ASTM D 1250-04 API MPMS 17.2.5.2	2C	15-7-0/0	15-7-0/0	5-0-0/0		68.5	68.5	<u> </u>						
GAUGE LOCATION: STANDPIPE G.H. on Expansion Trunk CORRECTED MEASURE: w = Wedge corrected, t = Trim corrected OTHER: API @ 60F / DENSITY @ 15C SOURCE: * GAUGE POSITION: C = Center of tank F = Forward of Center A = Aft of Center \$ & W - VOL %: SOURCE: SAMPLES DRAWN: 2X1QT PER TANK S & W - VOL: WCF TABLE: (t) NET STANDARD VOLUME BALLAST TANKS PERMANENT Y YES IF NO (SEE F-15 BALLAST TANKS) GROSS STANDARD WEIGHT SEASUCTION SEAL #'S: NET STANDARD WEIGHT DRAFT: FWD (P) 9-6 AFT (P) 9-6 LIST: (P) / (S) TOTAL CALC. VOL. DEPARTURE (S) 9-6 (S) 9-6 REMARKS: SEA CONDITION: CALM IN PORT TIM MC DONALD CORRECTED MEASURE: w = Wedge corrected, t = Trim corrected API @ 60F / DENSITY @ 15C SOURCE: NET STANDARD VOLUME REMARKS: API @ 60F / DENSITY @ 15C SOURCE: SAW - VOL : WCF TABLE: (t) NET STANDARD WEIGHT REMARKS: API @ 60F / DENSITY @ 15C SOURCE: SAW - VOL : WCF TABLE: (t) NET STANDARD WEIGHT API MAC DONALD TIM MC DONALD	3C	15-7-0/0	15-7-0/0	6-3-1/2	NIL	68.6	68.6	9-3-1/2	2433.36	0.00	2433.36			
GAUGE LOCATION: STANDPIPE G.H. on Expansion Trunk CORRECTED MEASURE: w = Wedge corrected, t = Trim corrected OTHER: API @ 60F / DENSITY @ 15C SOURCE: * GAUGE POSITION: C = Center of tank F = Forward of Center A = Aft of Center \$ & W - VOL %: SOURCE: SAMPLES DRAWN: 2X1QT PER TANK S & W - VOL: WCF TABLE: (t) NET STANDARD VOLUME BALLAST TANKS PERMANENT Y YES IF NO (SEE F-15 BALLAST TANKS) GROSS STANDARD WEIGHT SEASUCTION SEAL #'S: NET STANDARD WEIGHT DRAFT: FWD (P) 9-6 AFT (P) 9-6 LIST: 2 (P) / (S) TOTAL CALC. VOL. DEPARTURE (S) 9-6 (S) 9-6 SEA CONDITION: CALM IN PORT TIM MC DONALD CORRECTED MEASURE: w = Wedge corrected, t = Trim corrected API @ 60F / DENSITY @ 15C SOURCE: NET STANDARD VOLUME NET STANDARD WEIGHT REMARKS: **VOLUME CALC. VOL. DEPARTURE ASTM D 1250-04 **VOLUME CALCULATED IN ACCORDANCE WITH API MPMS 17.2.5.2							ļ							
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* GAUGE POSITION: C = Center of tank F = Forward of Center A = Aft of Center S & W - VOL %: SAMPLES DRAWN: 2X1QT PER TANK S & W - VOL: NET STANDARD VOLUME BALLAST TANKS PERMANENT YES IF NO (SEE F-15 BALLAST TANKS) SEASUCTION SEAL #'S: NET STANDARD WEIGHT DRAFT: FWD (P) 9-6 AFT (P) 9-6 LIST: 2 (P) / (S) TOTAL CALC. VOL. DEPARTURE (S) 9-6 (S) 9-6 REMARKS: SEA CONDITION: CALM IN PORT TIM MC DONALD **LIQUID LEVEL GAUGES IN ACCORDANCE WITH API MPMS 17.2.5.2	GAUGE	LOCATION			G.H. on	Expansion Trunk	······································	**************************************		: w = Wedge	*************************	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
SAMPLES DRAWN: 2X1QT PER TANK S & W - VOL: NET STANDARD VOLUME BALLAST TANKS PERMANENT V YES IF NO (SEE F-15 BALLAST TANKS) GROSS STANDARD WEIGHT SEASUCTION SEAL #'S: NET STANDARD WEIGHT DRAFT: FWD (P) 9-6 AFT (P) 9-6 LIST: 2 (P)/(S) TOTAL CALC. VOL. DEPARTURE (S) 9-6 (S) 9-6 REMARKS: SEA CONDITION: CALM IN PORT TIM MC DONALD SUBJECT: WCF TABLE: (t) NET STANDARD WEIGHT ASTM D 1250-04 ASTM D 1250-04 API MPMS 17.2.5.2	* GAU	SE POSITIO			rward of Co-	nter A - Aft of Cento	· ·							
BALLAST TANKS PERMANENT ✓ YES IF NO (SEE F-15 BALLAST TANKS) GROSS STANDARD WEIGHT SEASUCTION SEAL #'S: DRAFT: FWD (P) 9-6 AFT (P) 9-6 LIST: 2 (P) / (S) TOTAL CALC. VOL. DEPARTURE (S) 9-6 (S) 9-6 REMARKS: SEA CONDITION: CALM IN PORT TIM MC DONALD NET STANDARD WEIGHT NET STANDARD WEIGHT AFT (P) 9-6 LIST: 2 (P) / (S) TOTAL CALC. VOL. DEPARTURE **VOLUME CALCULATED IN ACCORDANCE WITH ASTM D 1250-04 **LIQUID LEVEL GAUGES IN ACCORDANCE WITH API MPMS 17.2.5.2					/ waiu oi cei	mer A = All UI Cente	**	 	» :		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			····
BALLAST TANKS PERMANENT YES	SAMPL	ES UHAWN	: 2XTQT PE	HIANK				ļ	10 MOLUME		WCF TA	BLE : (t)	
SEASUCTION SEAL #'S: NET STANDARD WEIGHT DRAFT: FWD (P) 9-6 AFT (P) 9-6 LIST: (P) / (S) TOTAL CALC. VOL. DEPARTURE (S) 9-6 (S) 9-6 REMARKS: SEA CONDITION: CALM IN PORT ASTM D 1250-04 TIM MC DONALD * LIQUID LEVEL GAUGES IN ACCORDANCE WITH API MPMS 17.2.5.2	DALLA									-				
DRAFT: FWD (P) 9-6 LIST: 2 (P) / (S) TOTAL CALC. VOL. DEPARTURE (S) 9-6 (S) 9-6 REMARKS: SEA CONDITION: CALM IN PORT ^ VOLUME CALCULATED IN ACCORDANCE WITH ASTM D 1250-04 TIM MC DONALD ** LIQUID LEVEL GAUGES IN ACCORDANCE WITH API MPMS 17.2.5.2										<u> </u>				
(S) 9-6 (S) 9-6 REMARKS: SEA CONDITION: CALM IN PORT TIM MC DONALD REMARKS: * VOLUME CALCULATED IN ACCORDANCE WITH ASTM D 1250-04 ** LIQUID LEVEL GAUGES IN ACCORDANCE WITH API MPMS 17.2.5.2		,		ΔFT /D) 0.6	I IST ·	8 (B) / (6			NIRE		······································	Commence of the Commence of th	
SEA CONDITION: CALM IN PORT ^ VOLUME CALCULATED IN ACCORDANCE WITH ASTM D 1250-04 **LIQUID LEVEL GAUGES IN ACCORDANCE WITH API MPMS 17.2.5.2	DIA!			······································		LIVE.	- (୮) / (3		-VE, DEFMI	· UILL				
TIM MC DONALD × LIQUID LEVEL GAUGES IN ACCORDANCE WITH API MPMS 17.2.5.2	SF/	···············			, 30			<u> </u>	ULATED IN ACC	ORDANCE WIT	Н	ΔSTM D 125	0-04	
CATALOGO DE TRANSPORTA DE LA CATALOGO DEL CATALOGO DEL CATALOGO DE LA CATALOGO DE	-			- C. 1.	TIM MC DO	NALD		¤ LIQUID LEVEL (GAUGES IN ACC	CORDANCE WIT	Н	***************************************	***************************************	
		VES	SEL'S STAFF					§TEMPERATURE	DETERMINATIO	ON IN ACCORDA	NCE WITH		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

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PORT / TERMINAL: Lake Charles, La	/ Citgo	OFFICE: LAKE CHARLES	3, LA TEL : (337) 625-1455	
VESSEL: CCL 7	VOY #:	INSPECTOR(S): TM	SGS FILE: 133562	
DATE: 3/5/2009 CARGO: SP	PENT CAUSTIC	CLIENT:	REF:	

SGS OBQ ROB MEASUREMENT

Oil Gas & Chemicals Services Division.

					MOIE:	DO NOT USE V.	.C.F. 11	CMPENATURE		•	Un das e	t Chemicais Servic	es Division.
UNITS :	Y F	T-IN		FT	MM		THER:		UNITS: 🗹	BBLS	U.S. GALS	M3	THER:
TANK#	REFERENCE HEIGHT	OBSERVED REFERENC E HEIGHT	*	OBSERVED INNAGE	FREE WATER INNAGE	NON-LIQUID INNAGE	AVG. TEMP	CORRECTED MEASURE	TOTAL OBSERVEI VOLUME	^ V.C.F.	FREE WATER VOLUME	NON-LIQUID VOLUME	LIQUID VOLUME
1C	15-7-0-0/0	15-7-0/0	T	0-0-0/0	NIL	NIL	60	0-0-0/0	0.00		0.00	0.00	0.00
2C	15-7-0/0	15-7-0/0	T	0-0-0/0	NIL	NIL	60	0-0-0/0	0.00		0.00	0.00	0.00
3C	15-7-0/0	15-7-0/0		0-0-0/0	NIL	NIL	60	0-0-0/0	0.00		0.00	0.00	0.00
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	DLUME CALCUL			·····	ASTM D 12			TOTALS	0.00		0.00	0.00	0.00
Ont	ehalf of our clie	Bbls of L	IQL	o bring to your a JID MATERI I-LIQUID MA	AL.	our opinion :		1	Ullage; correct CATION: OTH	STANDPIPE		orrected, t = Trim	
rem	ains on board w		_	tent we are awar		ı		* GAUGE P	OSITION: C =	Center of tank	F = Forward o	of Center A = Aft o	f Center
relat	tionships, this m	naterial belongs	to o	ır client(s) and si	hould be pumpe			OBQ SAM	IPLED	YES Y	NO IFNO	REASON	
In c	ase you are unai ny event, we hav	ole to do so plea re to advise our	ıse ır clien	idicate your reas t(s) of the above	ons below. and reserve his	right to seek							
com	pensation for th	e undelivered a	mou					OBQ TES	TED	YES Y	NO IFNO	REASON	
	ions without re					neas personal			······································				
								ROB SAM	IPLED	YES 🗸	NO IF NO	REASON	
	V., J., J., J., J., J., J., J., J., J., J							DRAFT:	EWD (D) + C		AFT (D) O O		
 		······································		1	TIAAA	IC DONALD	······································	UNAFT:	FWD (P) 1-6 (S) 1-6	**************************************	AFT (P) 2-0 (S) 2-0	LIST	° (P) / (S)
 	VESSE	L'S STAFF				NSPECTOR	·	SEA CO	NDITION: CA		(5) 2-0		

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Services rendered according to published General Terms and Conditions

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F-17												Page	t of the
PORT/	TERMINAL: La	ke Charles, L	a	/ Citgo)		OFFICE: LAKE C	CHARL	ES, LA	TEL	(337) 62	25-1455	
VESSE	L: CCL 7			VOY#	•		INSPECTOR(S):	TM		SGS	FILE: 133	3562	
DATE:	3/5/2009	CARGO: S	PENT CA	AUSTIC			CLIENT:			REF	:		
CO	<u>, c</u>				VESSE	L'S EXPE	RIENCE FAC	TOR					
SG	19				AT LO	ADING	AT DISCHA	RGE		Oil 6	Gas & Che	micals Services	Division.
1	2	3	4	5	6	7	8	9	10	11	12	13	14
VOYAGE	CARGO	~~~		A CANAGE TON	VESSEL MINUS OBO	LOAD TCV	SHORE	VCF	VESSE	* QUAL		'QUALIFIED VOY	
NUMBER	DESCRIPTION	TERMINAL	DATE	SAILING TCV ARRIVING TCV	MINUS OBO	DISCH TOV	TCV		SHORE RATIO	VOY Y/N	NO.	VESSEL. TCV	SHORE
Last	Caustic	Citgo	02/03/09		40	8159	8059		1.01244	Y	1	8159	8059
2nd	Caustic	Citgo	01/14/09	7725	0	7725	7624	1	1.01326	Y	2	7725	7624
3rd	Caustic	Citgo	08/26/09	9130	18	9112	9088	 	1.00268	N			
4th	Caustic	Citgo	08/18/08	8150	0	8150	7993	1	1.01971	N		,	
5th	Caustic	Citgo	08/03/08	8039	0	8039	7625	 	1.05436	N			
6th	Caustic	Citgo	06/27/08	8135	0	8135	7998	1	1.01723	N	 		
7th	Caustic	Citgo	06/17/08	8098	0	8098	8003	 	1.01191	Y	3	8098	8003
8th	Caustic	Citgo	03/19/08	7512	61	7451	7181	†	1.03748	N	11		
9th		 	 			<u> </u>		1			1		
10th	-	<u> </u>	 	<u> </u>	1	 		1		<u> </u>	1		
11th	<u> </u>		+			 		1		 	1	· · · · · · · · · · · · · · · · · · ·	<u> </u>
12th			1	 	 	<u> </u>		+		 			
13th								 			11	***************************************	<u> </u>
14th			 	 				_		 	1		<u> </u>
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18th	-	 	 		 	 		+	 	 	┨├───		<u> </u>
19th		 	+					+		 	┨┠		
20th		 	 			 		 		 	1		
<u> </u>	<u> </u>	1	ــــــــــــــــــــــــــــــــــــــ		TOTALS	49380	48764	+	1.01264	 	TOTALS	23983	23686
									AVERAGE RATIO	1	LOA		1.0125
AL E. V	OLUMES OR W	VEIGHTS IN	BBIG	0.62 () na	TONS 🗆 OTHE	:D	PRESENT VO	VACE /	NIMPED).	<u>)</u>	AUGING:	MANUA	g-areast
	LIFYING VOYA			wo wi	TORS LO OTTE		T.C.V.	TAGE	LOADED	DISCHA		WINIYOA	L . AIG
				rror difference w			1,0.4.	kså	LUMPLE I	UISUNA	nue		
NOTE				within + or - 0.0 information on t	030 of the Averag	e Ratio.	THEODERICA		D/LADING 1	OUTT:			
NOTE					ne same form. surements are no	t available.	THEORETICA	L L	B/LADING	OUTTU	1131	·	
and the state of t					ns which affect ti		ACTUAL		DA ADINO T	U)	 -		
	cargo capac	-					ACTUAL	ì	B/LADING	OUTTU			T & T = -
1	- Exclude dat	ta from 1st vo	yage after	dry dock.			1			DIFFER	ENCE		% 0.0

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DATE 3/6/02

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Inspection Report TRANSFER

Subject: CCL 7 to CCL 26

Product: SULFIDIC CAUSTIC

Client ref.:

3/17/2009

Location: CES, PORT ARTHUR, TX Client: CES ENVIROMENTAL

Our ref.:134637

Summary of Figures

Bbis @ 60°F Gallons @ 60°F

Vessel's Measurements "CCL 7"

Vessel's figures before Transfer Vessel's figures TOV on board after Transfer Vessel's figures TOV Delivered

5963.64 3.509.69 2,453.95

250,473.00 147.407.00 103,066.00

Vessel's Measurements "CCL 26"

Vessel's figures before Transfer Vessel's figures TOV on board after Transfer Vessel's figures TOV Received

828.44 3.229.93 2,401.49

34,794.48 135.657.06 100,862,58

Vessel's Experience Factor Cargo stowage Cargo tanks no(s):

CCL 7 [1C, 2C, 3C] CCL 26 [3C]

Letter of Protest

Subject:

Samples: NOT REQUESTED FROM CLIENT

Quality: NOT REQUESTED FROM CLIENT

Comments

Time Log

3/17/2009

* BARGES ALREADY ON SITE

1000 INSPECTOR NOTIFIED

1045 INSPECTOR ARRIVED

1115

* CARGO HOSE CONNECTED

1115

COMMENCED BARGE(S) PRIOR INSPECTION

1140 1200 COMPLETED BARGE(S) PRIOR INSPECTION

1345

* COMMENCED BARGE TO BARGE TRANSFER * COMPLETED BARGE TO BARGE TRANSFER

SGS North America Inc.

Oil, Gas & Chemicals Services

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1400 1400

COMMENCED BARGE(S) FINAL INSPECTION
* CARGO HOSE DISCONNECTED COMPLETED BARGE(S) FINAL INSPECTION

1430

Additional events, Stoppages and Delays

Darren W. Le Blanc for SGS Oil, Gas & Chemicals Services

Shore volume calculated in accordance with: $\ensuremath{\text{TOV}}$

Vessel volume calculated in accordance with: TOV

Procedures as per applicable MPMS Chapter 3.1a, 7, 8.1 or 8.2, 12.1 or 12.2, 17.1, 17.2, 17.4.

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To: JENNY RUST SGS REF NO: 134638 CES ENVIRONMENTAL TRIP#

SUMMARY OF FINDINGS

OPERATION

DISCHARGE FROM THE **CCL 7** TO SHORE TANK(S) 606, 607 AT KMTEX, PORT ARTHUR, TX ON OF A CARGO DESCRIBED AS **SULFIDIC CAUSTIC**

QUANTITY

		DELIVERED (1)	RECEIVED (2)	DIFFERENCE	PERCENT
TOV	BARRELS	2,615.69	2,637.43	-21.74	0.82
	U.S. GALLONS	109.859.00	110.772.00	-913.00	0.82

- 1. Delivered quantity based on barge figures
- 2. Received quantity based on shore tank(s 606, 607 3. Arrival: 3,509.69 GSV BBLS 4. ROB: 894.00 GSV BBLS

TIME LOG

•		-	
	3/17/2009	01:43	INSPECTOR ARRIVED
		01:44	COMMENCED GAUGING SHORE TANKS
		01:53	COMPLETE GAUGING SHORE TANKS
		01:54	COMMENCED BARGE CALCULATIONS
		01:63	COMPLETE CALCULATIONS
		18:00	HOSE ON
		18:40	COMMENCED UNLOADING
	3/18/2009	00:30	INSPECTOR NOTIFIED
		01:00	COMPLETE UNLOADING
		01:30	INSPECTOR ARRIVED
		01:50	GAUGED AND MEASURED ROB IN TANK 1C OF BARGE
		02:00	HOSE OFF
		02:15	COMMENCED GAUGING SHORE TANKS
		03:00	COMPLETE GAUGING SHORE TANKS
		03:15	COMMENCED DOING PAPPERWORK
		03:40	COMPLETE PAPPERWORK
		04:00	INSPECTOR DEPARTED

Darren W. Le Blanc Date: 3/18/2009

Shore volume calculated in accordance with: TOV Vessel volume calculated in accordance with: TOV Definition of Terms as per MPMS Chapter 1.

SGS North America Inc.

Oil, Gas & Chemicals Services

t(727-1035) www.sgs.com

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Procedures as per applicable MPMS Chapter 3.1a, 7, 8.1 or 8.2, 12.1 or 12.2, 17.1, 17.2, 17.4. **DISCLAIMER**

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Inspection Report (LOADING)

Subject: CCL 7

Date:

3/22/2009

Our ref.: 134636

Product: SPENT CAUSTIC Client ref: TBD

Location: Lake Charles, La / CITGO PETROLEUM Client:

Bbls @ 60°F

CES ENVIRONMENTAL SERVICES

Summary of Figures

Long Tons

Metric Tonnes

Pounds

Shore Measurements

Total Shore figures received

GSV

7,001.06

0.00

886.19

294,044.52

Gallons @ 60°F

Average API Gravity @ 60°F Shoretanks no(s):

TANK 182 (1), TANK 182 (2)

Vessel's Measurements

Vessel's figures before loading (OBQ) Free Water Vessel's figures before loading (OBQ) Liquid Vessel's figures before loading (OBQ) Non Liquid Vessel's figures before loading (OBQ) Total

Vessel's figures TCV on board after loading Vessel's figures TCV loaded Vessel's figures Free Water loaded Vessel's figures GSV loaded

0.00 886.19 8,086.09 7,199.90 0.00

7,199.90

37,219.98 339,615.78 302,395,80

0.00 302,395.80

Cargo stowage Cargo tanks no(s):

CCL 7[3C, 2C, 1C]

Letter of Protest

SEE THE ATTACHED

Subject: CCL 7

Samples

SHORE TANK: 2 QUARTS RUNNING

VESSEL: 2 QTS RUNNING AT OPENING MEASUREMENTS ON ALL VESSEL TANKS. AS PER API STANDARDS.

INSPECTOR NOTIFIED OF VESSELS ARRIVAL ARRIVED AT CITGO REF **BOARDED BARGE**

Quality

NO ANALYSIS REQUESTED

Time Log 3/21/2009

1032	INSPECTOR ARRIVED AT CITGO REF
1050	INSPECTOR BOARDED BARGE
1052	COMMENCED BARGE INSPECTION
1115	COMPLETED BARGE INSPECTION
1136	COMMENCED SHORE TANK 182 INSPECTION

0800

1155 COMPLETED SHORE TANK INSPECTION 1250 1X8" CARGO HOSE CONNECTED 1315 LOADING OF BARGE COMMENCED

1325 INSPECTOR DEPARTED 1545 PAPER WORK COMPLETED

SGS North America Inc.

Oil, Gas & Chemicals Services

4701 E. NAPOLEON SULPHUR, LA 70663 t((337) 625-1455) f((337) 625-1721) www.sgs.com

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3/22/2009	0122	INSPECTOR NOTIFIED OF TRANSFER SUSPENSION
0, 2200	0308	INSPECTOR ARRIVED AT REFINERY
	0315	TRANSFER TO BARGE SUSPENDED
	0330	INSPECTOR COMMENCED SHORE TANK 182 (CLOSE) INSPECTION
	0350	INSPECTOR COMPLETED SHORE TANK INSPECTION
	0402	COMMENCED TRANSFER INTO ST 182 FROM OTHER ST
	0435	INSPECTOR DEPARTED
	0730	* COMPLETED TRANSFER INTO ST 182 FROM OTHER ST
	0819	INSPECTOR NOTIFIED OF SHORE TANK 182 READY TO BE OPEN
	0915	INSPECTOR ARRIVED
	0942	COMMENCED INSPECTION (OPEN) OF SHORE TANK 182
	0955	COMPLETED INSPECTION
	1022	TRANSFER TO BARGE RESUMED
	1038	INSPECTOR DEPARTED
	1130	INSPECTOR NOTIFIED WITH 1 HOUR NOTICE OF REACHING DRAFT
	1148	INSPECTOR ARRIVED AT CITGO REFINERY
	1205	TRANSFER TO BARGE COMPLETED
	1220	BARGE INSPECTION COMMENCED
	1308	BARGE INSPECTION COMPLETED
	1412	DOCUMENTS ON BOARD
	1430	COMMENCED ST 182 INSPECTION (CLOSE)
	1451	COMPLETED ST INSPECTION
	1525	INSPECTOR DEPARTED CITGO
	1930	PAPERWORK COMPLETED
A	al assame	a Ctannages and Dalays

Additional events, Stoppages and Delays 3/22/2009 0315 TRANSFER TO BARGE SUSPENDED

BRETT DAIGLE

for SGS Oil, Gas & Chemicals Services 3/23/2009

Shore volume calculated in accordance with: Vessel volume calculated in accordance with:

ASTM D 1250-04 ASTM D 1250-04

Procedures as per applicable MPMS Chapter 3.1a, 7, 8.1 or 8.2, 12.1 or 12.2, 17.1, 17.2, 17.4.

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FIRCC REV. January 2007

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-3A	 	

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PORT / TERMINAL: Lake	Charles, La / Citgo	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 7	VOY#:	INSPECTOR(S): Mitchell Heuring
DATE: 3/21/2009		SGS FILE: 134636
CARGO: Spent Caustic		CLIENT: CES Environmental Servi REF: TBD

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VOYAGE ANALYSIS REPORT

<u> 202</u>	•	O I AGE AIV	ALIGIO HEF	Oil Gas	& Chemicals Ser	vices Division.
	TRANSFER 🗸	DISCHARGE	SUMMARY		Type of Voyage Simple	C/P DATE
Load Port/Terminal/Berth	ARRIVED	SAILED	Discharge Port/T	erminal/Berth	ARRIVED	SAILED
LAKE CHARLES/ CITGO REF	3/21/2009	3/22/2009	_			
VOLUME UNITS	SUPPLIER	RECEIVER	VCF SHORE LOAD	VCF SHORE DISCH	VCF VESSEL LOAD	CF VESSEL DISC
Y BBLS ☐ GALS ☐ M³ ☐ L	- сітдо	CES ENVIR.				
DESCRIPTION API/DENSITY	TCV	FW	GSV	S&W	NSV	Reference
I. COMPARISON OF SHORE QU	ANTITIES IN CUST	ODY TRANSFER				
Bill of Lading 1.	7001.06	0.00	7001.06			(1)
Outturn 2.						(2)
Diff. 3.	23. A.Z. 110.					(3)=(2) - (1)
Diff. % 4.						$(4) = (3) / (1) \times 100$
Recalc. B/L 5. (a)	Recalculate if	B/L and O/T use d	lifferent tables.		(5) (a) Vol. Diff.
II. VESSEL/SHORE QUANTITIES	AT(1) LOAL	PORT(S)				
Vessel Sailing /	4. 8086.09	0.00	8086.09	LIQUID	NON-LIQUID	(A)
OBQ (All) E	886.19	0.00	886.19	886.19	0.00	(B)
Loaded (7199.90	0.00	7199.90			(C)=(A) - (B)
Difference [D. 198.84	0.00	198.84			(D)=(C)-[(1) or (5)]
Difference %	E. 2.84%		2.84%			(E)=(D)/((1)ar(5))x100
Load Vessel Ratio	F. 1.0284					(F)=(C)/[(1)or(5)]
Load VEF (1.00000					(G)
Theoretical Shore	1. 7199.90					(H)=(C) / (G)
Theoretical Shore Diff.	1. 198.84					(I)=(H) - [(1) or (5)]
Theoretical Shore Diff. %	J. 2.84%					(J)=(I)/[(1) or (5)]x100
II. VESSEL/SHORE QUANTITIES	AT () DISC	HARGE PORT(S)				3
/essel Arrival	C			LIQUID	NON-LIQUID	(K)
ROB (All)	L-1					L)
Discharged N	1.					(M) = (K) - (L)
Difference N	٧.					(N) = (2) - (M)
Difference % C).					(O) = (N) / (2) x 100
Discharge Vessel Ratio F	P.					(P) = (M) / (2)
Discharge VEF C	γ.					(Q)
Theoretical Shore F	₹.					(R) = (M)/(Q)
Theoretical Shore Diff.	3.					(S) = (2) - (R)
Theoretical Shore Diff. %	г.					(T) = (S) / (2) x 100
III. VESSEL/'S COMPARISON OF	LOADING AND DI	SCHARGE PORT(S) VCF TABLE M	UST BE CONSIST	ENT	<u> </u>
Fransit Difference L	J.					(U) = (K) - (A)
Difference % \	7.			LIQUID	NON-LIQUID	(V) = (U) / (A) x 100
DBQ/ROB Difference W	<i>'</i> .					(W) = (L) - (B)
ADJ TCV DIFF : (Qu	TCV Difference (3) antity) / 0.00	- OBQ (B) + ROB (L)	[8 S&W at Load Por	5&W(1)/GSV(1)]X100 t:	[S&W at Disch Po	9 S&W(2)/GSV(2)]X10 prt :
Comments :						Δ
Prepared by :	Title :		Company :		Date Completed :	a di
Copyright SGS-OG&C June 1997 - Rev	Oct 2003		Services rer	ndered according to	published General To	erms and Condition

F-5		Page if the it
PORT / TERMINAL: Lake Charles, La / Citgo	OFFICE: LAKE CHARLES, LA	TEL: (337) 625-1455
VESSEL: CCL 7 VOY #:	NSPECTOR(S): Mitchell Heuring	
DATE: 3/22/2009	SGS FILE: 134636	
CARGO: Spent Caustic	CLIENT: CITGO PETROLEUM	REF: TBD
CCC LETTER OF	PROTEST (A) Oil Gas &	Chemicals Services Division.
OUD NOTICE OF	APPARENT DISCREPANCY(B)	
✓ AT LOADING AT TRANSFER AT DISCHARGE	✓ Shore	✓ Vessel
TO THE MASTER AND / OR OWNERS AND / OR AGENTS OF TH	VECCEL OOL 7	
TO THE MASTER AND / OR OWNERS AND / OR AGENTS OF THE	VESSEL: CCL 7	
TO THE TERMINAL REPRESENTATIVE OF: CITGO PETRO	EUM LAKE CHARLES	
Z Olido i Elite	LOW CALL OF FAILED	
ON BEHALF OF OUR PRINCIPAL(S), WE HEREBY NOTIFY YOU THA	ON THE 22 (DAY OF) March	(MONTH) 2009 (YEAR)
AT 14:55 (HR) THE FOLLOWING WAS OBSERVED:		
BARGE - SHORE DIFFERENCE:	, - , - , - , - , - , - , - , - , - , -	MATERIAL CONTROL OF THE PROPERTY OF THE PROPER
7,001.06 BBLS: SHORE TANK 182 DELIVERED		
7,199.90 BBLS : CCL 7 BBLS RECEIVED		
98.84 BBLS: DIFFERENCE		
.84%; PERCENTAGE		
	the state of the s	
		MANAGEMENT CONTRACTOR
	The first state of the state of	
(A) ACCORDINGLY YOU MAY BE HELD RESPONSIBLE FOR THE	OSS AND DAMAGE THEREBY SUSTAL	NED, AS WELL AS ANY
CONSEQUENTIAL LOSS AND DAMAGE ARISING THEREFROM		
TOTAL CONTINUE COO DES PRINCE ANGRE HILBERRY		
(R) ACCORDINGLY VOIL ARE HEREBY NOTICIED THAT ELECTICS	WESTIGATION IS INTENDED TO DEC	ALVE THE DISCOURDANCY
(B) ACCORDINGLY YOU ARE HEREBY NOTIFIED THAT FURTHER	NVESTIGATION IS INTENDED TO RES	OLVE THIS DISCREPANCY.
(B) ACCORDINGLY YOU ARE HEREBY NOTIFIED THAT FURTHER RECEIPT ACKNOWLEDGED:	NVESTIGATION IS INTENDED TO RES	OLVE THIS DISCREPANCY.
	NVESTIGATION IS INTENDED TO RES	OLVE THIS DISCREPANCY. Mitchell Heuring

STOWAGE	D/B VESSEL:		
		B/L DATE:	
REMARKS	QUANTITY CONFIRMED	QUANTITY CHANGES YES NO IF YES STATE REAS	ON 3
with	of		
with	of		
Date	Time		7

F-2					,	Fage		
PORT / TERMINAL: Lake Charles, La / Citgo OFFICE: LAKE CHARLES, LA TEL: (337) 62								
SSEL: CCL 7 VOY #: INSPECTOR(S): Mitchell Heuring								
DATE: 3/21/2009	SGS FILE: 134636 CLIENT: CES Environmental Servi REF: TBD							
SGS	VE	SSEL QUA	NTITY SU	MMARY	Oil Ga	as & Chemicals Se	rvices Division.	
AT LOADING AT TR	IANSFER	DISCHARGE	CRUDI	OIL		▼ PROD	UCTS	
API @ 60ºF :	<u> </u>	D. 60°F/60°F			Density	Lbs/Gal @		
S&W % VOL:								
SOURCE OF ANALYTICAL DATA	A :							
	vo	LUME	WCF			WEIGHT		
	BBLS	U.S. GALS	; (t	POU	NDS	LONG TONS	METRIC TONS	
VESSEL'S QUANTITIES	V.E.F. CO	RRECTED :	O YES	NO		VEF:	· · · · · · · · · · · · · · · · · · ·	
TOTAL CALCULATED VOL	8086.09	339615.70	8					
FREE WATER	0.00	0.00						
GROSS STANDARD VOLUME	8086.09	339615.7	3					
S & W VOLUME								
NET) STANDARD VOLUME								
☑ OBQ			ROB					
LIQUID MATERIAL	886.19	37219.98						
NON-LIQUID MATERIAL	0.00	0.00						
FREE WATER	0.00	0.00						
TOTAL	886.19	37219.98						
LOADED QUANTIT	TES		DISCHARGED (DUANTITIES				
TOTAL CALCINATED VOL	7400.00	200005 00		682		T	1	
TOTAL CALCULATED VOL	7199.90	302395.80	,					
FREE WATER	0.00	0.00						
GROSS STANDARD VOLUME S & W VOLUME	7199.90	302395.80	·					
NET) STANDARD VOLUME								
ARE SLOPS INCLUDED IN CAL		YES	NO	Z	NO S	SLOPS ON BOARD		
STOWAGE O/B VESSEL: 1-3 (3						- Factorial Control	
REMARKS:								

PORT / TERMINAL: Lake C	harles, La / Citgo	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 7	VOY #:	INSPECTOR(S): Mitchell Heuring
DATE: 3/21/2009		SGS FILE: 134636
CARGO: Spent Caustic		CLIENT: CES Environmental Servi REF: TBD

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TIME LOG

Oil Gas & Chemicals Services Division.

Ē	Z AT LOA	DING	AT TRANSFER	AT DISCHARGE
	Y	EAR 2009 / MO	NTH JAN FEB MAR APR MAY J	IUN JUL AUG SEP OCT NOV DEC
Date	Hour			
3/21	08:00	INSPECTOR NO	OTIFIED OF VESSELS ARRIVAL	
3/21	10:32	INSPECTOR AF	RIVED AT CITGO REF	
3/21	10:50	INSPECTOR BO	DARDED BARGE	
3/21	10:52	COMMENCED E	BARGE INSPECTION	
3/21	11:15	COMPLETED B.	ARGE INSPECTION	
3/21	11:36	COMMENCED S	SHORE TANK 182 INSPECTION	
3/21	11:55	COMPLETED S	HORE TANK INSPECTION	
3/21	12:50	1X8" CARGO H	OSE CONNECTED	
3/21	13:15	LOADING OF B	ARGE COMMENCED	
3/21	13:25	INSPECTOR DE	PARTED	
3/21	15:45	PAPER WORK	COMPLETED	
3/22	01:22	INSPECTOR NO	TIFIED OF TRANSFER SUSPENSION	
3/22	03:08	INSPECTOR AF	RIVED AT REFINERY	
3/22	03:15	TRANSFER TO	BARGE SUSPENDED	<u> </u>
3/22	03:30	INSPECTOR CO	MMENCED SHORE TANK 182 (CLOSE) INSI	PECTION
3/22	03:50	INSPECTOR CO	MPLETED SHORE TANK INSPECTION	
3/22	04:02	COMMENCED T	RANSFER INTO ST 182 FROM OTHER ST	
3/22	04:35	INSPECTOR DE	PARTED	
3/22	07:30	* COMPLETED T	RANSFER INTO ST 182 FROM OTHER ST	
3/22	08:19	INSPECTOR NO	TIFIED OF SHORE TANK 182 READY TO BE	OPEN
3/22	09:15	INSPECTOR AF	RIVED	
3/22	09:42	COMMENCED II	NSPECTION (OPEN) OF SHORE TANK 182	
3/22	09:55	COMPLETED IN	SPECTION	
3/22	10:22	TRANSFER TO	BARGE RESUMED	
3/22	10:38	INSPECTOR DE	PARTED	
3/22	11:30	INSPECTOR NO	TIFIED WITH 1 HOUR NOTICE OF REACHIN	NG DRAFT
3/22	11:48	INSPECTOR AR	RIVED AT CITGO REFINERY	
3/22	12:05	TRANSFER TO	BARGE COMPLETED	
3/22	12:20	BARGE INSPEC	TION COMMENCED	**************************************
3/22	13:08	BARGE INSPEC	TION COMPLETED	
3/22	14:12	DOCUMENTS O	N BOARD	
3/22	14:30	COMMENCED S	IT 182 INSPECTION (CLOSE)	
3/22	14:51	COMPLETED ST		
DI	ELAYS AND	STOPPAGES:	· · · · · · · · · · · · · · · · · · ·	
3/22	03:15	TRANSFER TO	BARGE SUSPENDED	
MES	MARKED *	ARE SUBMITTED TO U	S.	TIME LOG PAGE + OF

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Services rendered according to published General Terms and Conditions

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PORT / TERMINAL: Lake	Charles, La / Cítgo	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 7	VOY #:	INSPECTOR(S): Mitchell Heuring
DATE: 3/21/2009		SGS FILE: 134636
CARGO: Spent Caustic		CLIENT: CES Environmental Servi REF: TBD

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TIME LOG

000							On Qua	or One	micals Serv	1000 01110	OH.
Z AT LOAD	ING			AT TR	ANSFER				AT DISCH	ARGE	
YE	AR 2009	/ MONTH	JAN FE	B MAI	APR	MAY JUN	JUL A	ug s	SEP OCT	NOV	DEC
te Hour											
22 15:25		OR DEPAR									
22 19:30	PAPERW	ORK COMP	LETED								
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DELAYS AND	STOPPAGES :	······································						······································			
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F-10					Page IIII of 12		
PORT / TERMINAL: Lake Charles,	La / Citgo	OFFICE LAKE	CHARLES, LA	TEL (337) 625-1455	5		
VESSEL CCL 7	VOY#	INSPECTOR(S):	Mitchell Heuring	SGS FILE 134636			
CARGO Spent Caustic		CLIENT CES	Environmental Services	REF TBD			
CCC	SHOR	E TANK MEASUREMENT	S (STATIC)				
<u> </u>	✓ AT LOADING	AT TRANSFER	AT DISCHARGE	Oil Gas & Chemicals S	Services Division.		
SHORETANK # 182	REF HEIGHT: 29-11-3/4	GAUGE UNITS	FT-IN T FT T	MM OTHER:			
OPEN DATE: 3/21/2009 T		TE: 3/22/2009 TIME: 3:50		OPEN	CLOSE		
OBS. REF. HEIGHT INNAGE	WATER INNAGE OBS. REF. HEIGHT	§ INNAGE WATER INNAGE	INSPECTOR:	MITCH HEURING	MITCH HEURING		
29-11-3/4 27-5-3/4	9-5-1/2	7-0-3/4	WITNESS:				
			API @ 60°F				
			SOURCE				
			AMBIENT AIR TEMP				
			TEMP OF TANK SHELL	59	59		
			AVG TEMP (0.5°F)	67.5	67.5		
§ MEASUREMENTS TAKEN IN ACC	ORDANCE WITH :	INNAGE: API MPMS 3.1A.9.2	AVG INNAGE	27-5-3/4	7-0-3/4		
FREE WATER DETERMINED IN A	CCORDANCE WITH :	API MPMS 3.1A.10.1	AVG WATER INNAGE				
# TEMPERATURES TAKEN IN ACCO	ORDANCE WITH :	API MPMS 7.6.4	VOLUME UNITS BBLS M3 OTHER:				
^ VOLUME CALCULATED IN ACCO	RDANCE WITH :	ASTM D 1250-04	TABLE VOLUME **	8820.16	2235.64		
PROD TEMP 67.3 x 0	.875 = 58.8875 PROD TEMP	67.4 x 0.875 = 58.9750	FREE WATER	0.00	0.00		
(+) AIR TEMP x 0	1.125 = (+) AIR TEMP	x 0.125 =	OBSERVED VOLUME	8820.16	2235.64		
TANK SHELLTEMPERATURE:	= 59 TANK SHELL TE	MPERATURE = 59	TANK SHELL CORR.	1.00000	1.00000		
ROOF CORRECTION INFO - STAND	ARD API:		OBSERVED VOLUME	8820,16	2235.64		
CRITICAL ZONE RANGE FROM	TO ROOF I	LEG 🗌 HIGH 🗀 LOW	ROOF CORRECTION	0.00	0.00		
	OPEN	CLOSE	GROSS OBSERVED VOL.	8820.16	2235.64		
AVG INN IN CRITICAL ZONE	YES V NO	YES NO	^VCF TABLE : (t)	1.00000	1.00000		
SIDEGAUGE/ATG	29-3-5/8 27-11-9/16	6-9-1/2 7-5-1/2	GROSS STANDARD VOL.	88 20.16	2235.64		
TEMPERATURES °F	# PROBE MERCURY	# PROBE MERCURY	DIFFERENCE 6584.52				
* ACTION TAKEN :	☑ U 67.3 ☑ M 67.3 ☑ L 67.3		CUSTODY TRANSFER SAM	PLE:			
	□ M	☑ M 67.4	API @ 60°F				
	OTHER*	OTHER*	S & W % VOL.				
SIDETEMP/REMOTE	46.0 67.0	47 68.2	S & W VOLUME				
PROBE WAS CHECKED PRIOR TO	USE Y YES NO	NOT USED	NET STANDARD VOLUME				
SAMPLING			WCF TABLE : (t)				
* ACTION TAKEN :	T DB DR	T DB DR	GROSS STANDARD WT.				
	OTHER* RUNNING	OTHER*	NET STANDARD WEIGHT				
AT ULLAGES :			WEIGHT UNITS LT	□MT ☑ LBS □	OTHER:		
HACKED	Ref TSh Temp: 60	OP TEMP:	** IS TABLE VOLUME IN	BBLS M3	OTHER:		

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F-10								Page 2 of 2
PORT / TERMINA	L: Lake Charles,	La	/ Citgo		OFFICE LAKE	CHARLES, LA	TEL (337) 625-1455	j
VESSEL CCL 7			VOY#		INSPECTOR(S):	Mitchell Heuring	SGS FILE 134636	
CARGO Spent C	austic				CLIENT CESE	Environmental Services	REF TBD	
CCC				E TANK ME	ASUREMENT	S (STATIC)		
<u> </u>		7	AT LOADING	TA 📋	TRANSFER	AT DISCHARGE	Oil Gas & Chemicals S	Services Division.
SHORETANK # 182 REF HEIGHT: 29-11-3/4 GAUGE L			AUGE UNITS	FT-IN THE	MM OTHER:			
		TME: 9:55		E: 3/22/2009 TI	ME: 14:51		OPEN	CLOSE
OBS. REF. HEIGHT	§ INNAGE	¤ WATER INNAGE	OBS. REF. HEIGHT	§ INNAGE	×WATER INNAGE	INSPECTOR:	Mitchell Heuring	Mitchell Heuring
17-11-7/8	15-4-3/8	0-0	16-3	14-0-7/8	0-0	WITNESS:		
						API @ 60°F		
						SOURCE		
						AMBIENT AIR TEMP		
						TEMP OF TANK SHELL	63	63
						AVG TEMP (0.5°F)	72.0	72.0
§ MEASUREMENTS TAKEN IN ACCORDANCE WITH :			INNAGE: API MPMS 3.1A.9.2		AVG INNAGE	15-4-3/8	14-0-7/8	
× FREE WATER DETERMINED IN ACCORDANCE WITH :			API MPMS 3.1A.1	0.1	AVG WATER INNAGE	0-0	0-0	
# TEMPERATURES TAKEN IN ACCORDANCE WITH : API I			API MPMS 7.6.4		VOLUME UNITS 💆 BBI	LS M3 OTHER	:	
^ VOLUME CALCULATED IN ACCORDANCE WITH :			ASTM D 1250-04		TABLE VOLUME **	4912.67	4496.13	
PROD TEMP	72.2 x 0	. 875 = 63.1750	PROD TEMP	72.1 x 0.875 = 63.0875		FREE WATER	0.00	0.00
(+) AIR TEMP	× O).125 =	(+) AIR TEMP	x 0.125 =		OBSERVED VOLUME	4912.67	4496.13
TANK SHELLTEM	PERATURE:	= 63	TANK SHELL TE	MPERATURE = 63		TANK SHELL CORR.	1.00000	1.00000
ROOF CORRECTI	ON INFO - STAND	ARD API:				OBSERVED VOLUME	4912.67	4496.13
CRITICAL ZONE	RANGE FROM	то	ROOF L	EG HIGH	l 🗀 LOW	ROOF CORRECTION	0.00	0.00
		Of	PEN	CL	OSE	GROSS OBSERVED VOL.	4912.67	4496.13
AVG INN IN CRITI	CAL ZONE	YES	✓ NO	YES	✓ NO	^VCF TABLE : (t)	1.00000	1.00000
SIDEGAUGE/ATG		15-4-3/8	15-11-7/16	13-7 1	4-2-13/16	GROSS STANDARD VOL.	4912.67	4496,13
TEMPERATURES	⁵ Ł	# Y PROBE	MERCURY	# Y PROBE	MERCURY	DIFFERENCE	416	5.54
* ACTION TAKEN	:	✓ U 72.2 ✓ M	72.2 🗹 L 72.2	✓ U 72.1 ✓ N	1 72.1 L 72.0	CUSTODY TRANSFER SAM	PLE:	
		□ M		□ M		API @ 60ºF		
		OTHER*		OTHER*		S & W % VOL.		
SIDETEMP/REMO	TE	47	72.6	47	72.6	S & W VOLUME		
PROBE WAS CHE	CKED PRIOR TO	USE YES	O NO	NOT USED		NET STANDARD VOLUME		
SAMPLING		Tu Di	n D.	OU OR	1 DL	WCF TABLE : (t)		
* ACTION TAKEN	l :	От Он	3 Z R	От Ов	з Пя	GROSS STANDARD WT.		
		OTHER*		OTHER*	*** · · · · · · · · · · · · · · · · · ·	NET STANDARD WEIGHT		
AT ULLAGES :					······································	WEIGHT UNITS LT	MT LBS	OTHER:

OP TEMP:

Ref TSh Temp: 60

** IS TABLE VOLUME IN V BBLS M3 OTHER:

F-15											₩.	age	
PORT/	TERMINAL:	Lake Charles	, La	/ Cito	go	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455							
VESSE	L: CCL 7	······································		VOY	#:	INSPECTOR(S): Mitchell Heuring SGS FILE: 134636							
DATE:	3/21/2	009 CARGO:	Spent Causti	c			CLIENT: CES	Environment	al Services	REF: TBI)		
SGS VESSEL MEASUREMENT						SYSTEM DEPARTURE	☑ OPEN	CLOSE / F		& Chemicals S	ervices Division.		
AT LOADING AT TRANSHIPMENT AT DISCHARGE						CARG	O TANKS	✓ BALL	AST TANKS	□ NO	N/OTHER CARG	iO	
UNITS		FT-IN	FT		MM 🗆	OTHER:		JNITS : 🗹	BBLS	U.S. GALS		OTHER:	
TANK #	REFERENCE HEIGHT	OBSERVED REFERENCE HEIGHT	¤ ULLAGE	WATER INN	TEMPERATURES °F § PROBE	AVG. TEMP	CORRECTED MEASURE	TOTAL OBSERVED VOLUME	FREE WATER	GROSS OBSERVED VOLUME	^ V.C.F. (t 6B)	GROSS STANDARD VOLUME	*
3C	15-7	15-7-1/2	5-9-5/8	0-0	68.5 68.5 68.5	68.5	9-9-7/8	2573.50	0.00	2573.50	1.00000	2573.50	С
2C	15-7	15-7-3/4	5-4	0-0	68.5 68.5 68.5	68.5	10-3-3/4	2698.57	0.00	2698.57	1.00000	2698.57	С
1C	15-7	15-7-1/2	4-8-1/2	0-0	68.4 68.4 68.3	68.4	10-11	2814.02	0.00	2814.02	1.00000	2814.02	C
				<u> </u>									
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			ļ			<u> </u>			<u> </u>				
						<u> </u>							
-		D PRIOR TO US	· · · · · · · · · · · · · · · · · · ·			D	TOTALS	8086.09	0.00	8086.09		8086.09	
GAUGE	LOCATION			G.H. on	Expansion Trunk		CORRECTED MEASURE: w = Wedge corrected, t = Trim corrected						
* GALL	CE BOSITIO	OTHER			nter A = Aft of Cente		API @				DURCE :	······································	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	.,				nter A = An of Cente	<u>г</u>	S&W-VOL%	:			OURCE:		
SAMPL	ES DRAWN	: 2 qts run p	er vessel tank				S&W-VOL:			WCF TA	BLE : (t 8	<u>)</u>	,
	AT 7 5 115A =						NET STANDAR						
		PERMANENT	Y YES I	F NO (SEE F-15 BALLAST	IANKS)	GROSS STAND		T				
	CTION SEA						NET STANDAR						
DRAFT		P) 9-6	AFT (P)		LIST:	¥ (P) / (S	TOTAL CALC.		·····			8086.09	
er.		S) 9-6		9-6			REMARKS: \				[
SE/	CONDITIO	N: CALM AT I		h 47. / 11.1.			<u> </u>				ASTM D 125		
Mitchell Heuring						LIQUID LEVEL GAUGES IN ACCORDANCE WITH API MPMS 17.2.5.2							

INSPECTOR

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HECKED ESSEL'S STAFF

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API MPMS 17.2.5.3

STEMPERATURE DETERMINATION IN ACCORDANCE WITH

			38.77
PORT / TERMINAL: Lake Charles, La	/ Citgo	OFFICE: LAKE CHARLES, LA	TEL: (337) 625-1455
VESSEL: CCL 7	VOY #: N/A	INSPECTOR(S): Mitchell Heuring	SGS FILE: 134636
DATE: 3/21/2009 CARGO: Spent Caustic		CLIENT: CES Environmental Services	REF: TBD

* LOGE!	UUL. /				VOI W. 14,			MOI EUTOIT	O)- WILLIAM FIEL	uny		104000	
DATE:	3/21/20	09 CARGO:	Spe	nt Caustic				CLIENT: CE	S Environmental	Services	REF: TE	3D	
CL	<i>5</i> C				~	OBQ			SUREMENT				
<u>U</u>					NOTE:	DO NOT USE V	.C.F. IF T	EMPERATURE	IS NOT TAKEN		Oil Gas	& Chemicals Servic	es Division.
UNITS :		T-IN		FT	MM		THER:	.,	L	BLS	U.S. GALS		THER:
TANK #	REFERENCE HEIGHT	OBSERVED REFERENC E HEIGHT	*	OBSERVED ULLAGE	FREE WATER INNAGE	NON-LIQUID	AVG. TEMP	CORRECTED MEASURE	TOTAL OBSERVED VOLUME	^ V.C.F. (t 6B)	FREE WATER VOLUME	NON-LIQUID VOLUME	LIQUID VOLUME
3C	15-7	15-7-1/2	Π	12-3-3/4	0-0	0-0	68.5	3-3-1/4	886.19	1.00000	0.00	0.00	886.19
2C	15-7	15-7-3/4		15-7-3/4	0-0	0-0	60.0	0-0	0.00	1.00000	0.00	0.00	0.00
1C	15-7	15-7-1/2		15-7-1/2	0-0	0-0	60.0	0-0	0.00	1.00000	0.00	0.00	0.00
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^ VC	LUME CALCUL	ATED IN ACCO	RDAI	NCE WITH	ASTM D 12	250-04	<u> </u>	TOTALS	886.19	-	0.00	0.00	886.19
On b	ehalf of our clie	ent(s) we would I	ike to	o bring to your at				d=dip, u=	Ullage: corrected		w = Wedge co	orrected, t = Trim (corrected
		Bbls of L	IQL	JID MATERI	AL			1	ATION: ST		-	l. on Expansion tru	
		Rhie of N	ON	-LIQUID MA	TEDIAL			 	OTHER:			•	
rom	sine on board w					1		* GAUGE PO				f Center A = Aft of	Center
relat	ionships, this m	naterial belongs	to ou	tent we are awar ır client(s) and st	rould be pumpe			OBQ SAM	PLED V	YES	NO IF NO	REASON	
				dicate your reaset(s) of the above		right to seek							
	pensation for th			nt. Id similiar adviso	n, canicae evr	vaca navaana)		OBQ TESTED YES NO IF NO REASON					
	ions without res			o sillillar adviso	ry services exp	ness personal							
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								DRAFT:	FWD (P) 9-6	, ,	AFT (P) 9-6	LIST	: ⁹ (P) / (S)
1 I Pos pro-					MITCHE	ELL HEURING			(S) 9-6		(S) 9-6		
TILL	NCL VESSE	L'S STAFF				NSPECTOR		SEA CO	NDITION: CALM	AT PORT			
Gapy dent	SGS-OG&C 199	97 - Rev April 20	05	All the state of t		and the second constitution of the second second second second second second second second second second second			The second section of the second second section of the second sec	Services ren	dered according	to published General	Terms and Conditions

- -7							Page	1.31	Ot	7
PORT / TERMINAL: La	ke Charles, La / Citgo		OFFICE: LA	KE CHARLES	S, LA	TEL: (337) 62	5-145	55	
/ESSEL: CCL 7	VOY#:		INSPECTOR(S)): Mitchell F	leuring				-	
DATE: 3/21/2009			SGS FILE: 13	34636			<u> </u>		· · · · · · · · · · · · · · · · · · ·	
CARGO: Spent Caust	tic		CLIENT: CES	S Environmer	ntal Sen	REF:	BD	***************************************		
SGS	INFO	PRMATION FOR	CLEANLINE	SS INSPEC		& Chemic	als Serv	/ices (Divisio	n.
AT LOADING	AT TRANSFER	AT DISCHARGE		SHORE		2	VESSEL			
THE INFO	PRMATION ON THIS LIRIS F-7 WILL	BE USED TO COMPLETE	LIRIS F-9 WAS SUBM	AITTED TO US BY	THE PERSO	ON(S) INDICA	TED BELO	W		
VE CONSULTED FOR	R TANK INSPECTION ON (DATE) 3/21/2009	(TIME)	10:50	WITH:	year.		·		
		IGE OPERATOR	TERMIN	VAL REPRESE	NTATIV		CHA	RTERE	R	
OTHER (SPECIF)					,					
PLEASE PRINT NAM	E(S)									
ANK MATERIAL:										
ANK #:	10	2C	3C				-			==
IATERIAL	MILD STEEL	MILD STÉE		STEEL						
OATING NAME	EPOXY COA			Y COAT					*****	
APPARENT CONDITIO				PTABLE			_			
TANK #:							\top			—
MATERIAL								******		
OATING NAME					 			-		
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PREVIOUS CARGOES TANK# 3 CENTERS CAU LINES - PUMPS: NAME	KED AGAINST MANU ASO MISSING DISCOLOR OVERS THE CLEANLINESS OF THE S: THIRD LAST JSTIC MATERIAL	SECOND CAUSTIC	CCEPTABLE e	etc. (ALL PER	PRES YES YES	SSED WITH NO NO	PPROX C M N N N N N PRESS PRESS	COMPA YES YES YES YES YES YES YES YES YES YES	ATIBLE N N N N N N N N N N N N N N N N N N N	0 0 0 0 0 0 0 0 0
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F-9	Page Sign of Sign
PORT / TERMINAL: Lake Charles, La / Citgo	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 7 VOY #:	INSPECTOR(S): Mitchell Heuring
DATE: 3/21/2009	SGS FILE: 134636
CARGO: Spent Caustic	CLIENT: CES Environmental Servi REF: TBD
SGS TANK CLEANI	LINESS INSPECTION Oil Gas & Chemicals Services Division.
✓ AT LOADING ☐ AT TRANSFER ☐ AT DISCHARGE	☐ AS INSPECTION ONLY ☐ AS PRE-INSPECTION
	₩ WITH CUSTODY TRANSFER
USE A SEPARATE	E FORM F-9 PER INSPECTION
THIS IS THE FIRST SECOND	THIRD THINSPECTION
TANK(S): 1C,2C,3C	
BASED ON SUBMITTED INFORMATION (SEE LIRIS	S F-7) AND :
☐ VISUAL CHECK FOR RESIDUES FROM D	PECKLEVEL (SEE LIRIS F-15 OR F-20)
MEASURING OF RESIDUES FROM DECK	LEVEL (SEE LIRIS F-16)
PHYSICAL ENTRY (TANK SAFE ATMOSF	PHERE STATEMENT BELOW MUST BE COMPLETED PRIOR TO ENTRY)
AND VISUAL INSPECTION	
AND WALLWASHING (ANAL	LYTICAL REPORT ON FILE)
AND TESTING OF HEATING	COILS
WERE ACCEPTED FOR CLEANLINESS TO CARRY A	CARGO OF SPENT CAUSTIC
WERE REJECTED FOR CLEANLINESS TO CARRY A	CARGO OF
REASON:	
SHIP'S STAFF AND/OR SGS SUPERVISOR AND/O	OR CLIENT NOTIFIED ON BY
✓ INSPECTION COMPLETED AT 11:15 HRS ON TH	
TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING E	
SIGNATURES :	Mitchell Heuring
FOR VESSEL	FOR TERMINAL INSPECTOR
* IS THIS TANK ACCEPTANCE BASED SOLELY ON SUBMITTE	years,
IF YES; ISSUE N.O.A.D. AND INFORM YOUR SGS SUPE	ERVISOR AND/OR LICLIENT(S) IMMEDIATELY.
	TMOSPHERE STATEMENT
he undersigned certifies that those tank(s) indicated on I	
eported on the reverse side of the SGS F-7 and that the ta	
he undersigned hereby grants permission for SGS perso	<u> </u>
Tank Cafe Atmoonhara Statement signed	hours on
Tank Safe Atmosphere Statement signed	hours on
SIGNATURES :	
	EOR TERMINAL
FOR VESSEL	FOR TERMINAL
PRINT NAME (S):	- <u>- </u>
NOTE: DO NOT ENTER THE TANK(S) if this ?	TANK SAFE ATMOSPHERE STATEMENT is not signed
	ervisor for further instructions.
opyright SGS-OG&C 1995 - Rev Oct 2003	Services rendered according to published General Terms and Condition

F-14	Page (1) of (1)
PORT / TERMINAL: Lake Charles, La / Citgo	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 7 VOY #:	INSPECTOR(S): Mitchell Heuring
DATE: 3/21/2009	SGS FILE: 134636
CARGO: Spent Caustic	CLIENT: CES Environmental Servi REF: TBD
SGS	CARGO QUANTITY OPTION Oil Gas & Chemicals Services Division.
$lacktriang$ at Loading \Box at Transfer \Box at	DISCHARGE ☐ RESIDUAL ☐ CLEAN PRODUCTS ☑ CHEMICALS/GASES
ABOVE VESSEL WILL 📝 LOAD 🗌 DIS	SCHARGE 📝 AT THIS TERMINAL 🗌 AT (SPECIFY) :
AS PER 🔲 CHARTER PARTY 🛄 AMENDI	ED C/P 🗹 PRINCIPAL'S INSTRUCTIONS 🗌 OTHER (SPECIFY)
FOLLOWING QUANTITY(S) OF SPENT CAUST	TIC
()	LT MT POUNDS OTHER (SPECIFY) 9'6" DRAFT
OR: ()	BBLS M³ OTHER AT STD. TEMP OBSERV. TEMP
MINIMUM MAXIMUM MINIM *PLUS OR MINUS %" IS THE OPT	
*PLUS OR MINUS %" IS OPTED F	VICTOR OF THE PROPERTY OF THE
	BE DETERMINED BY SHIP'S STOP SHORE STOP
	RECEIVED / LOADED INTO TANK(S) 1-3 CENTERS
VESSEL'S CO-MINGLING ACCEPTABLE TO	O OUR PRINCIPAL YES NO
CARGO REQUIRES SEGREGAT	TION SEPARATION VOLUMETRIC BLENDING
SIGNATURES) VESSEL'S STAFF :	TION SEPARATION VOLUMETRIC BLENDING DATE: TIME:
CARGO REQUIRES SEGREGAT	TION SEPARATION VOLUMETRIC BLENDING DATE: TIME: DATE: TIME:
SIGNATURES SEGREGAT SIGNATURES) VESSEL'S STAFF: TERMINAL REPRESENTATIVE:	TION SEPARATION VOLUMETRIC BLENDING DATE: TIME: DATE: TIME:
SIGNATURES) VESSEL'S STAFF : TERMINAL REPRESENTATIVE : INSPECTOR : Mitc	TION SEPARATION VOLUMETRIC BLENDING DATE: TIME: DATE: TIME:
SIGNATURES) VESSEL'S STAFF : TERMINAL REPRESENTATIVE : INSPECTOR : Mitc	DATE: TIME: DATE: TIME: DATE: TIME: DATE: TIME: Chell Heuring DATE: 3/21/2009 TIME: 11:15
SIGNATURES) VESSEL'S STAFF: TERMINAL REPRESENTATIVE: INSPECTOR: Mitc	DATE: TIME: DATE: TIME: DATE: TIME: - TAKEN BY INSPECTOR YES NO
SIGNATURES) VESSEL'S STAFF : TERMINAL REPRESENTATIVE : INSPECTOR : Mitc	DATE: TIME: DATE: TIME: DATE: TIME: DATE: TIME: Chell Heuring DATE: 3/21/2009 TIME: 11:15 - TAKEN BY INSPECTOR YES NO -TAKEN BY TERMINAL / VESSEL YES NO
SIGNATURES) VESSEL'S STAFF : TERMINAL REPRESENTATIVE : INSPECTOR : Mitc	DATE: TIME: DATE: TIME: DATE: TIME: DATE: TIME: Chell Heuring DATE: 3/21/2009 TIME: 11:15 - TAKEN BY INSPECTOR YES NO -TAKEN BY TERMINAL / VESSEL YES NO
SIGNATURES) VESSEL'S STAFF: TERMINAL REPRESENTATIVE: INSPECTOR: Mitc	DATE: TIME: DATE: TIME: DATE: TIME: DATE: TIME: Chell Heuring DATE: 3/21/2009 TIME: 11:15 - TAKEN BY INSPECTOR YES NO -TAKEN BY TERMINAL / VESSEL YES NO
SIGNATURES) VESSEL'S STAFF: TERMINAL REPRESENTATIVE: INSPECTOR: Mitc	DATE: TIME: DATE: TIME: DATE: TIME: DATE: TIME: Chell Heuring DATE: 3/21/2009 TIME: 11:15 - TAKEN BY INSPECTOR YES NO -TAKEN BY TERMINAL / VESSEL YES NO
SIGNATURES) VESSEL'S STAFF: TERMINAL REPRESENTATIVE: INSPECTOR: Mitc	DATE: TIME: DATE: TIME: DATE: TIME: DATE: TIME: Chell Heuring DATE: 3/21/2009 TIME: 11:15 - TAKEN BY INSPECTOR YES NO -TAKEN BY TERMINAL / VESSEL YES NO
SIGNATURES) VESSEL'S STAFF: TERMINAL REPRESENTATIVE: INSPECTOR: Mitc	DATE: TIME: DATE: TIME: DATE: TIME: DATE: TIME: Chell Heuring DATE: 3/21/2009 TIME: 11:15 - TAKEN BY INSPECTOR YES NO -TAKEN BY TERMINAL / VESSEL YES NO
SIGNATURES) VESSEL'S STAFF: TERMINAL REPRESENTATIVE: INSPECTOR: Mitc	DATE: TIME: DATE: TIME: DATE: TIME: DATE: TIME: Chell Heuring DATE: 3/21/2009 TIME: 11:15 - TAKEN BY INSPECTOR YES NO -TAKEN BY TERMINAL / VESSEL YES NO
SIGNATURES) VESSEL'S STAFF: TERMINAL REPRESENTATIVE: INSPECTOR: Mitc	DATE: TIME: DATE: TIME: DATE: TIME: DATE: TIME: Chell Heuring DATE: 3/21/2009 TIME: 11:15 - TAKEN BY INSPECTOR YES NO -TAKEN BY TERMINAL / VESSEL YES NO
SIGNATURES) VESSEL'S STAFF: TERMINAL REPRESENTATIVE: INSPECTOR: Mitc	DATE: TIME: DATE: TIME: DATE: TIME: DATE: TIME: Chell Heuring DATE: 3/21/2009 TIME: 11:15 - TAKEN BY INSPECTOR YES NO -TAKEN BY TERMINAL / VESSEL YES NO
SIGNATURES) VESSEL'S STAFF: TERMINAL REPRESENTATIVE: INSPECTOR: Mitco ARE STOP GAUGES: REMARKS:	DATE: TIME: DATE: TIME: DATE: TIME: DATE: TIME: Chell Heuring DATE: 3/21/2009 TIME: 11:15 - TAKEN BY INSPECTOR YES NO -TAKEN BY TERMINAL / VESSEL YES NO
SIGNATURES) VESSEL'S STAFF: TERMINAL REPRESENTATIVE: INSPECTOR: Mitc ARE STOP GAUGES: REMARKS: NOTE: (1) WE CALCULATE AND CHECK ON STOP TERMINAL EMPLOYEES ARE SOLELY RES OF THE DESIGNATED TANKS. (2) OUR STAFF IS AVAILABLE TO ADVISE COMPONENTS AND TESTED IN OUR LABO	DATE: TIME: DATE: TIME: DATE: TIME: DATE: Shell Heuring DATE: 3/21/2009 TIME: 11:15 - TAKEN BY INSPECTOR YES NO - TAKEN BY TERMINAL / VESSEL YES NO - WITNESSED BY INSPECTOR YES NO - WITNESSED BY INSPECTOR YES NO



Inspection Report (LOADING)

Subject: CCL 7

Date:

3/30/2009

Our ref.: 135919

Product: SPENT CAUSTIC Client ref.: TBD

Location: Lake Charles, La / CITGO PETROLEUM

CES ENVIRONMENTAL SERVICES Client:

299,725.86

Summary of Figures Bbls @ 60°F Gallons @ 60°F **Long Tons Metric Tonnes Pounds Shore Measurements** Total Shore figures delivered GSV 6,873.48 288,686.16 Average API Gravity @ 60°F Shoretanks no(s): TANK 182, TANK 182 **Vessel's Measurements** Vessel's figures before loading (OBQ) Free Water 0.00 Vessel's figures before loading (OBQ) 778.88 Liquid Vessel's figures before loading (OBQ) Non Liquid 0.00 Vessel's figures before loading (OBQ) Total 778.88 32,712.96 Vessel's figures TCV on board after loading 7,915.21 332,438.82 Vessel's figures TCV loaded 7,136.33 299,725.86 Vessel's figures Free Water loaded 0.00 0.00

Cargo stowage Cargo tanks no(s):

Vessel's figures GSV loaded

CCL 7[1C, 2C, 3C]

7,136.33

Samples

SHORE TANK - 2X1 QUART RUNNING FROM EACH SHORE TANK BARGES - 2X1 QUART RUNNING PER CARGO TANK

Quality

NONE REQUESTED

CTION TION

> ZED VITH MORE PRODUCT

٦ls Services

FON SULPHUR, LA 70663 t((337) 625-1455) f((337) 625-1721) www.sgs.com

Member of the SGS Group (Société Générale de Surveillance)



0645	S/T 182 GAUGED CLOSED
1540	INSPECTOR NOTIFIED
1640	INSPECTOR ARRIVED
1700	S/T 182 GAUGED OPEN
1935	RESUMED LOADING
1950	INSPECTOR NOTIFIED
2050	INSPECTOR ARRIVED
2130	COMPLETED LOADING
2155	CARGO HOSE DISCONNECTED
2215	S/T 182 GAUGED CLOSED
2225	COMMENCED FINAL INSPECTION
2250	COMPLETED FINAL INSPECTION

BRETT DAIGLE for SGS Oil, Gas & Chemicals Services 3/31/2009

Shore volume calculated in accordance with: Vessel volume calculated in accordance with:

ASTM D 1250-04

Procedures as per applicable MPMS Chapter 3.1a, 7, 8.1 or 8.2, 12.1 or 12.2, 17.1, 17.2, 17.4.

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FIRCC REV. January 2007

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		44

-3A				Page	#∰ of	
PORT / TERMINAL: Lake C	harles, La / Citgo PETROLEUM	OFFICE: LAKE CHARLES, LA	TEL:	(337) 625-	1455	
VESSEL: CCL 7	VOY #:	INSPECTOR(S): T. MC DONALD				
DATE: 3/30/2009		SGS FILE: 135919				
CARGO: Spent Caustic		CLIENT: CES Environmental	REF:	TBD		

SGS

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VOYAGE ANALYSIS REPORT

UUU					On Ga	s & Chemicals Se		
✓ LOADING	V-V 1	TRANSFER	DISCHARGE	SUMMARY		Type of Voyag	e	C/P DATE
Load Port/Terminal/Berth		ARRIVED	SAILED	Discharge Port/	Terminal/Berth	ARRIVED	T	SAILED
L.C./ CITGO/ C-SLIP		3/29/2009	3/31/2009					
VOLUME UNITS		SUPPLIER	RECEIVER	VCF SHORE LOAD	VCF SHORE DISCI	VCF VESSEL LOA	DVCF	VESSEL DISC
☑ BBLS ☐ GALS ☐ M³ ☐	L	CITGO	CES			Arresterant de la constant de la con		
DESCRIPTION API	-	TCV	FW	GSV	S&W	NSV		Reference
I. COMPARISON OF SHORE	QUA	NTITIES IN CUST	ODY TRANSFER					
Bill of Lading 1.		6873.48	0.00	6873.48			(1)	
Outturn 2.							(2)	
Diff. 3.		***************************************					(3)=(?	2) - (1)
Diff. % 4.							(4) =	(3)/(1) x 100
Recalc. B/L 5.	(a)		Recalculate if	B/L and O/T use	different tables.		(5)	(a) Vol. Diff.
II. VESSEL/SHORE QUANTIT	ES A	AT () LOAE	PORT(S)					
Vessel Sailing	A.	7915.21	0.00	7915.21	LIQUID	NON-LIQUID	(A)	
OBQ (All)	В.	778.88	0.00	778.88	778.88	0.00	(B)	***************************************
Loaded	C.	7136.33	0.00	7136.33			(C)=(/	A) - (B)
Difference	D.	262.85	0.00				(D)=((C)-[(1) or (5)]
Difference %	E.	3.82%					(E)=(I	D)/[(1)or(5)]x100
Load Vessel Ratio	F.	1.0382					(F)=(C)/[(1)or(5)]
Load VEF	G.	0.00000					(G)	
Theoretical Shore	Н.	0.00					(H)=(C	C)/(G)
Theoretical Shore Diff.	1	-6873.48					(I)=(H)) - [(1) or (5)]
Theoretical Shore Diff. %	J.	-100.00%					(J)=(I)	/[(1) or (5)]x100
II. VESSEL/SHORE QUANTITI	ES A	T() DISCI	HARGE PORT(S)				1	
Vessel Arrival	K.				LIQUID	NON-LIQUID	(K)	······································
ROB (All)	L.						L)	
Discharged	М.						(M) = ((K) - (L)
Difference	N.						(N) = (2) · (M)
Difference %	0.						(0) = (N) / (2) x 100
Discharge Vessel Ratio	P.						(P) = (M) / (2)
Discharge VEF	Q.						(Q)	
Theoretical Shore	R.						(R) = (M) / (Q)
Theoretical Shore Diff.	S.						(S) = (;	2) - (A)
Theoretical Shore Diff. %	- -		1				(T) = (!	S) / (2) x 100
III. VESSEL/'S COMPARISON)F (OADING AND DIS	SCHARGE PORTIS	VCE TABLE M	UST BE CONSIST	ENT	<u> </u>	
Transit Difference	U.	DADING AND DIC	I	y voi TABLE III	OST DE CORBIST		(U) = (I	K) - (A)
Difference %	v.				LIQUID	NON-LIQUID	(V) = (I	U) / (A) x 100
OBQ/ROB Difference	W.						W) = (L) - (B)
		TOU DISCOURS (C)	080 (8) - 500 (1)		NO LANCA LANCA CONTRACTOR CONTRAC		<u> </u>	
ADJ TCV DIFF: (C		tity) / 0.00	OBQ (B) + ROB (L)	S&W at Load Por	6&W(1)/GSV(1)]X100 t:	S&W at Disch Po)/GSV(2)]X100
Comments :				*****		····		ك مـــ
								III
Prepared by: TIM MC DONA	_DŢ	Title: INS	SPECTOR	Company :	SGS	Date Completed :	3,	/31/2009

EPAHO081001705

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Page	at of	

	1
PORT / TERMINAL: Lake Charles, La / Citgo PETROLEUM	OFFICE LAKE CHARLES, LA TEL (337) 625-1455
VESSEL CCL 7 VOY#	INSPECTOR(S): T. MC DONALD
DATE 3/30/2009	SGS FILE 135919
CARGO Spent Caustic	CLIENT CES Environmental REF TBD

CCC	SHORE OLIANTITY	CHAMADV		
CARGO Spent Caustic	CLIEN	T CES Environmental	REF	TBD
DATE 3/30/2009	SGS F	ILE 135919		
VESSEL CCL 7 VO	/# INSPE	CTOR(S): T. MC DONALD		
PORT / TERMINAL: Lake Charles, La /	Citgo PETROLEUM OFFIC	E LAKE CHARLES, LA	TEL	(337) 625-1455

<u> </u>				Oil	Oil Gas & Chemicals Services Division.			
✓ AT LOADING ☐ AT TRAN	SFER 🗆	AT DISCHARGE	SHORI	E TANK (STATIC)	METE	R (DYNAMIC)		
CUSTODY TRANSFER SAMPLE								
API @ 60°F:		R.D. 60°F/60°F		☐ Dens	ity Lbs/Gal @			
S&W % VOL:								
SOURCE OF ANALYTICAL DATA:								
	UNITS	TANK 182	TANK 182					
TOTAL CALCULATED VOLUME	BBLS	6288.89	584.59					
FREE WATER	BBLS	0.00	0.00					
GROSS STANDARD VOLUME	BBLS	6288.89	584.59					
S & W VOLUME	BBLS							
(NET) STANDARD VOLUME	BBLS							
WCF TABLE (1)								
GROSS STANDARD WEIGHT	LBS							
S & W WEIGHT	LBS		 					
(NET) STANDARD WEIGHT	LBS							
			······································			······································		
	<u> </u>		······					
	UNITS	· ·		SHORELINE	TOTAL DE	LIVERED		
TOTAL CALCULATED VOLUME	BBLS				6873	.48		
FREE WATER	BBLS				0.0	0		
GROSS STANDARD VOLUME	BBLS		 		6873	.48		
S & W VOLUME	BBLS							
(NET) STANDARD VOLUME	BBLS				<u> </u>			
			······································		GSV NSV	SV @		
GROSS STANDARD WEIGHT	LBS				132, 407	_; -, -		
S & W WEIGHT	LBS					***************************************		
(NET) STANDARD WEIGHT	LBS							
			· · · · · · · · · · · · · · · · · · ·	<u></u>	<u> </u>			
STOWAGE O/B VESSEL: 1-3C			***************************************					
		· · · · · · · · · · · · · · · · · · ·		B/L DATE:		<u> </u>		
DEMARKS OF ANTITY CONTINUE								
REMARKS QUANTITY CONFIRM with of	CD	QUANTITY CI	HANGES	YES NO	IF YES STATE RI	PIOCA		

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F-2		····			Pag				
PORT / TERMINAL: Lake Char		TROLEUM	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455						
VESSEL: CCL 7	VOY#;		INSPECTOR(S): T. MC DONALD						
DATE: 3/30/2009			SGS FILE: 135		REF: TBD				
CARGO: Spent Caustic			CLIENT: CES E		ner: 180				
<u> 565</u>	VI	ESSEL QUA	NTITY SUMI	VIARY Oil Ga	as & Chemicals Se	rvices Division.			
AT LOADING AT TI	RANSFER AT	DISCHARGE	CRUDE O	L	✓ PROD	UCTS			
☐ API @ 60°F:		I.D. 60°F/60°F		Density	/ Lbs/Gal @				
S&W % VOL:	·			·					
SOURCE OF ANALYTICAL DAT	A:								
	Vo	LUME	WCF (t 8)		WEIGHT				
	BBLS	U.S. GALS	(t 8)	POUNDS	LONG TONS	METRIC TONS (AIB)			
VESSEL'S QUANTITIES	V.E.F. CO	RRECTED:	YES 🗹	NO	VEF:				
TOTAL CALCULATED VOL	7915.21	332438.82							
FREE WATER	0.00	0.00							
GROSS STANDARD VOLUME	7915.21	332438.82							
S & W VOLUME									
(NET) STANDARD VOLUME									
☑ OBQ			08						
LIQUID MATERIAL	778.88	32712.96			T				
NON-LIQUID MATERIAL	0.00	0.00							
FREE WATER	0.00	0.00				*			
TOTAL	778.88	32712.96							
				·	l				
☑ LOADED QUANTIT	TEC		ISCHARGED QUA	AUTITIE					
LOADED GOARIII		<u></u>	IJOHANGED QUA	4111163					
TOTAL CALCULATED VOL	7136.33	299725.86							
FREE WATER	0.00	0.00							
GROSS STANDARD VOLUME	7136.33	299725.86							
S & W VOLUME	······································								
NET) STANDARD VOLUME									
ARE SLOPS INCLUDED IN CAL	CULATIONS	YES	✓ NO	NO S	LOPS ON BOARD				
STOWAGE O/B VESSEL: 1-30	·								
						Q			
REMARKS:									
						, and the			

Page 1 of 1%

PORT / TERMINAL: Lake Charles, La / Citgo PETROLEUM	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 7 VOY #:	INSPECTOR(S): T. MC DONALD
DATE: 3/30/2009	SGS FILE: 135919
CARGO: Spent Caustic	CLIENT: CITGO PETROLEUM REF: TBD

SGS

TIME LOG

Oil Gas & Chemicals Services Division.

<u> </u>					& Chemicals Services Division.		
☑ AT LOADING			AT TRANSFE	ER AT DISCHA	RGE		
	Υ	EAR 2009 / MONTH JAN	FEB MAR AF	PR MAY JUN JUL AUG SEP OCT	NOV DEC		
Date	Hour						
3/29	10:30	BARGE ARRIVED					
3/29	10:40	BARGE DOCKED					
3/29	11:30	CARGO HOSE CONNECTED					
3/29	14:30	INSPECTOR NOTIFIED					
3/29	15:15	INSPECTOR ARRIVED					
3/29	15:20	COMMENCED PRE-DECK INS	PECTION				
3/29	15:35	COMPLETED PRE-DECK INSI	PECTION				
3/29	16:00	COMMENCED LOADING					
3/29	16:00	S/T 182 GAUGED OPEN AND	SAMPLED				
3/30	05:45	DOWN, WAITING TO FILL S/T	182 WITH MORE	PRODUCT			
3/30	06:00	INSPECTOR NOTIFIED					
3/30	06:30	INSPECTOR ARRIVED					
3/30	06:45	S/T 182 GAUGED CLOSED					
3/30	15:40	INSPECTOR NOTIFIED					
3/30	16:40	INSPECTOR ARRIVED					
3/30	17:00	S/T 182 GAUGED OPEN					
3/30	19:35	RESUMED LOADING					
3/30	19:50	INSPECTOR NOTIFIED	-				
3/30	20:50	INSPECTOR ARRIVED					
3/30	21:30	COMPLETED LOADING					
3/30	21:55	CARGO HOSE DISCONNECTE	ED				
3/30	22:15	S/T 182 GAUGED CLOSED					
3/30	22:25	COMMENCED FINAL INSPECT					
3/30	22:50	COMPLETED FINAL INSPECT	ION				
			······				
L							
DE	LAYS AND	STOPPAGES:					
			······································		<u>Q</u>		

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TIME LOG PAGE

T 40								Page 1 of 2
F-10	L: Lake Charles, I	l a	/ Citgo		OFFICE LAKE	CHARLES	TEL (337) 625-1455	
VESSEL CCL 7	- Lune Charles, I	L- L-4	VOY#	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	 	T. MC DONALD	SGS FILE 135919	-
CARGO SPENT	CAUSTIC				CLIENT CES		REF TBD	
000	0,100110		SHOB	E TANK MEA				/
565		~	AT LOADING	1,4444	TRANSFER	AT DISCHARGE	Oil Gas & Chemicals S	Services Division.
SHORETANK #	182	REF HEI	······································			FT-IN D FT D	MM OTHER:	
		IME: 16:00	CLOSE DAT	E: 3/30/2009 TIM			OPEN	CLOSE
OBS. REF. HEIGHT		WATER INNAGE	OBS. REF. HEIGHT	§ INNAGE	WATER INNAGE	INSPECTOR:	T. MC DONALD	T. MC DONALD
29-2-0/0	26-8-1/4	NIL	9-8-0/0	7-2-1/4	NIL	WITNESS:		
						API @ 60°F		<u> </u>
						SOURCE		
						AMBIENT AIR TEMP		
***************************************						TEMP OF TANK SHELL	62	62
						AVG TEMP (0.1ºF)	71.0	71.0
§ MEASUREMENTS TAKEN IN ACCORDANCE WITH :				INNAGE: API MPM	S 3.1A.9.2	AVG INNAGE	26-8-1/4	7-2-1/4
¤ FREE WATER C	ETERMINED IN A	CCORDANCE WITH	:	API MPMS 3.1A.10	.1	AVG WATER INNAGE	NIL	NIL
# TEMPERATURE	S TAKEN IN ACC	ORDANCE WITH	:	API MPMS 7.6.4		VOLUME UNITS BB	LS M3 OTHER	ł:
^ VOLUME CALC	ULATED IN ACCO	RDANCE WITH	:		· · · · · · · · · · · · · · · · · · ·	TABLE VOLUME **	8564.80	2275.91
PROD TEMP	71.2 x 0	.875 = 62.3000	PROD TEMP	71.2 x 0.875 = 62.3000		FREE WATER	0.00	0.00
(+) AIR TEMP	× O	.125 =	(+) AIR TEMP	x 0.125 =		OBSERVED VOLUME	8564.80	2275.91
TANK SHELLTEM	PERATURE:	= 62	TANK SHELL TE	MPERATURE	= 62	TANK SHELL CORR.	1.00000	1.00000
ROOF CORRECT	ION INFO - STAND	ARD API:				OBSERVED VOLUME	8564.80	2275.91
CRITICAL ZONE	RANGE FROM	то	ROOF I	LEG 🔲 HIGH	Low	ROOF CORRECTION	0.00	0.00
		OP	EN	CLC	DSE	GROSS OBSERVED VOL.	8564.80	2275.91
AVG INN IN CRIT	ICAL ZONE	YES	✓ NO	YES	⊘ NO	^VCF TABLE : (t)	1.00000	1,00000
SIDEGAUGE/ATG	i	26-10-0/0	/ 27-5-7/8	7-0-0/0 /	7-7-9/16	GROSS STANDARD VOL.	8564.80	2275.91
TEMPERATURES °F # PROBE MERCURY			# Y PROBE	MERCURY	DIFFERENCE 6288.89		88.89	
* ACTION TAKEN : U 71.2 V M 71.2 V L 71			71.2 🗸 L 71.2	🗸 U 71.2 🗌 M	□ L	CUSTODY TRANSFER SAN	IPLE:	
		M		O M		API @ 60°F		
☐ OTHER*				OTHER*		S&W% VOL.		
SIDETEMP/REMO	OTE		-		-	S & W VOLUME		
PROBE WAS CH	ECKED PRIOR TO	USE YES	NO C	NOT USED		NET STANDARD VOLUME		
SAMPLING		DU DN	ı 🗆 🗀 👢	□u □n	i I L	WCF TABLE : (t)		
* ACTION TAKE!	V :	T - T	V n 2∩T		fil a	GROSS STANDARD WT.		

OTHER'

OP TEMP:

DATING IN SGS-OG&C 2001. Rev April 2005

AT ULLAGES :

OTHER*

Ref TSh Temp: 60

☐ LBS ☐ OTHER:

M3 OTHER:

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LT

** IS TABLE VOLUME IN ... BBLS ...

NET STANDARD WEIGHT

WEIGHT UNITS

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F-10		_	Page Z of Z
PORT / TERMINAL: Lake Charles, La	/ Citgo	OFFICE LAKE CHARLES	TEL (337) 625-1455
VESSEL CCL 7	VOY#	INSPECTOR(S): T. MC DONALD	SGS FILE 135919
CARGO SPENT CAUSTIC		CLIENT CES Environmental	REF TBD

			AT LOADING	AT TRANSFER		AT DISCHARGE	Oil Gas & Chemicals Services Division.		
SHORETANK # 182		REF HE	GHT:	G	AUGE UNITS	Y FT-IN FT	MM OTHER:		
		TIME: 17:00	CLOSE DAT		ME:		OPEN	CLOSE	
OBS. REF. HEIGHT	·	#WATER INNAGE	***		*WATER INNAGE	INSPECTOR:	T. MC DONALD	T. MC DONALD	
20-10-0/0	18-4-0/0	NIL	19-0-1/8	16-6-1/4	NIL	WITNESS:			
						API @ 60ºF/ DENS. @ 15º			
						SOURCE			
						AMBIENT AIR TEMP			
						TEMP OF TANK SHELL	63	63	
						AVG TEMP (0.1ºF)	72.2	72.2	
§ MEASUREMEN	IS TAKEN IN AC	CORDANCE WITH	:	INNAGE: API MPI	MS 3.1A.9.2	AVG INNAGE	18-4-0/0	16-6-1/4	
FREE WATER D	ETERMINED IN	ACCORDANCE WITH	:	API MPMS 3.1A.1	0.1	AVG WATER INNAGE	NIL	NIL	
# TEMPERATURE	S TAKEN IN AC	CORDANCE WITH	*	API MPMS 7.6.4		VOLUME UNITS 🗸 BBI	LS Nº COTHER	} :	
^ VOLUME CALC	ULATED IN ACC	ORDANCE WITH	:	ASTM D 1250-04		TABLE VOLUME **	5870.18	5285.59	
PROD TEMP	72.2 x	0.875 = 63.1750	PROD TEMP	72.2 x 0.875 = 63.1750		FREE WATER	0.00	0.00	
(+) AIR TEMP x 0.125 = (+) AIR TEMP				x ().125 =	OBSERVED VOLUME	5870.18	5285.59	
TANK SHELLTEMPERATURE: = 63 TANK SHELL TE			MPERATURE = 63		TANK SHELL CORR.	1.00000	1.00000		
ROOF CORRECTION INFO - STANDARD API:					· · · · · · · · · · · · · · · · · · ·	OBSERVED VOLUME	5870.18	5285.59	
CRITICAL ZONE	RANGE FROM	то	ROOF	LEG HIGH	1 D LOW	ROOF CORRECTION	0.00	0.00	
	······································	OF	PEN .	CLOSE		GROSS OBSERVED VOL.	5870.18	5285.59	
AVG INN IN CRITI	CAL ZONE	YES	₹ NO	YES	⊘ NO	^VCF TABLE : (t)	1.00000	1.00000	
SIDEGAUGE/ATG	·	18-6-3/4	/ 19-2-5/8	16-4-0/0 / 16-11-9/16		GROSS STANDARD VOL.	5870.18	5285.59	
TEMPERATURES		# V PROBE	MERCURY	# Y PROBE	······································	DIFFERENCE	58	4.59	
* ACTION TAKEN	·····		72.2 🗸 L 72.2	_ 	N 72.2 ♥ L 72.2	CUSTODY TRANSFER SAM	PLE:	······································	
		I M		M M	····	API @ 60°F			
		OTHER*		OTHER*	VEX.	S & W % VOL.			
SIDETEMP/REMO)TE		м		_	S & W VOLUME			
PROBE WAS CHI	CKED PRIOR T	OUSE Y YES	NO [NOT USED		NET STANDARD VOLUME			
SAMPLING				Territa	M DL	WCF TABLE : (t)		1	
* ACTION TAKEN :		TOT DE				GROSS STANDARD WT.			
		OTHER*		OTHER*	Samuel 37	NET STANDARD WEIGHT			
AT ULLAGES :		Canal Table 1		VIII.		WEIGHT UNITS LT	MT LBS	OTHER:	
PARTES		Ref TSh Temp :	60	OP TEMP :		** IS TABLE VOLUME IN	BBLS M3	OTHER:	
CAPPATE)	0.004 54		טס	T OF TEMP:	***************************************		red according to published		
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F-15											· · · · · · · · · · · · · · · · · · ·	187 0 QMA ""	929996
								OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455					
VESSE								INSPECTOR(S): T. MC DONALD SGS FILE: 135919					
DATE:	3/30/2	009 CARGO:	Spent Caust	ic			CLIENT: CES	S Environment	al	REF: TBD			
S	3S			VES	SEL MEASU ARRIVAL	power try	T SYSTEM DEPARTURE	✓ OPEN	CLOSE / I	RESTRICTED Oil Gas 8	Chemicals S	ervices Division.	•
[✓ AT L	OADING	AT TRANS	SHIPMENT	AT DISCHA	RGE	✓ CAR	GO TANKS	BALL	AST TANKS	NO	N/OTHER CARG	10
UNITS	: Y	FT-IN	FT		MM 🗀	OTHER:		UNITS: 🗸	BBLS	U.S. GALS	M3 []	OTHER:	***************************************
TANK #	REFERENCE HEIGHT	OBSERVED REFERENCE HEIGHT		WATER INN	TEMPERATURES *F PROBE	AVG. TEMP	CORRECTED MEASURE	TOTAL OBSERVED VOLUME	FREE WATER	GROSS OBSERVED VOLUME	^ V.C.F. (t)	GROSS STANDARD VOLUME	*
1C	15-7-0/0	15-7-0/0	5-0-1/2	NIL	71.1	71.1	10-6-1/2	2729.38	0.00	2729.38	1.00000	2729.38	
2C	15-7-0/0	15-7-0/0	5-3-1/4	NIL	71.2	71.2	10-3-3/4	2698.57	0.00	2698.57	1.00000	2698.57]
3C	15-7-0/0	15-7-0/0	6-1-0/0	NIL	71.1	71.1	9-6-0/0	2487.26	0.00	2487.26	1.00000	2487.26	
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			<u> </u>	 									十
PROBE	WAS CHECK	ED PRIOR TO US	E Y YI	s I N	O NOT US	SED	TOTALS	7915.21	0.00	7915.21		7915.21	1
GAUGE	ELOCATION	: STANE	PIPE	G.H. on	Expansion Trunk		CORRECTED MEASURE: w = Wedge corrected, t = Trim corrected						
		OTHER	₹:			. /************************************	API @ 60ºF SOURCE :						
* GAU	GE POSITIO	N: C = Center	of tank F = F	orward of Ce	nter A = Aft of Cent	ter	S & W - VOL %: SOURCE:						
SAMPL	ES DRAWN	: 2X1QT PE	R TANK				S & W - VOL: WCF TABLE: (t)						
,							NET STANDARD VOLUME						
BALLA	ST TANKS	PERMANENT	✓ YES	IF NO (SEE F-15 BALLAST	TANKS)	GROSS STANDARD WEIGHT						
	JCTION SEA	L #'S :					NET STANDA	RD WEIGHT	**********				
DRAFT	······································	(P) 9-3	AFT (F	·····	LIST:	º (P) / (S		. VOL. DEPAR	TURE			7915.21	
		S) 9-3	······································	9-6			REMARKS :	Act Approximates a series	ODD 410001000				
SE	A CONDITIO	N: CALMINE	PORT					CULATED IN ACC			ASTM D 125		
		NARI IA		TIM MC DC							API MPMS 1		
1	VE	SSEL'S STAFF			INSPECTOR	\$TEMPERATURE DETERMINATION IN ACCORDANCE WITH API MPMS 17.2.5.3							

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PORT / TERMINAL: Lake Charles, La	/ Citgo PETROLEUM	OFFICE: LAKE CHARLES, LA	TEL: (337) 625-1455
VESSEL: CCL 7	VOY#:	INSPECTOR(S): T. MC DONALD	SGS FILE: 135919
DATE: 3/30/2009 CARGO: Spent Caustic		CLIENT: CES Environmental	REF: TBD

SGS OBQ ROB MEASUREMENT

Oil Gas & Chemicals Services Division.

		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			NOIE:	DO NOT USE V.	.C.F. IF 11	WITCHAIUNE	19 NOT TAKEN		Oll Gas c	chemicals Service	es Division.
UNITS:		T-IN		FT	MM	O	THER:		UNITS: 😾 BE	3LS	U.S. GALS		OTHER:
TANK#	REFERENCE HEIGHT	OBSERVED REFERENC E HEIGHT	*	OBSERVED ULLAGE	FREE WATER INNAGE	NON-LIQUID INNAGE	AVG. TEMP	CORRECTED MEASURE	TOTAL OBSERVED VOLUME	^ V.C.F. (t )	FREE WATER VOLUME	NON-LIQUID VOLUME	LIQUID VOLUME
1C	15-7-0/0	15-7-0/0		13-1-0/0	NIL	NIL	60	2-6-0/0	674.19	1.00000	0.00	0.00	674.19
2C	15-7-0/0	15-7-0/0		15-4-1/2	NIL	NIL	60	0-3-1/2	104.69	1.00000	0.00	0.00	104.69
3C	15-7-0/0	15-7-0/0		0-0-0/0	NIL	NIL	60	0-0-0/0	0.00		0.00	0.00	0.00
^ VO	LUME CALCUL	ATED IN ACCO	RDAI	VCE WITH	ASTM D 12	250-04		TOTALS	778.88		0.00	0.00	778.88
On b	On behalf of our client(s) we would like to bring to your attention that in our opinion :  Bbls of LIQUID MATERIAL  Bbls of NON-LIQUID MATERIAL  GAUGE LOCATION : STANDPIPE  G.H. on Expansion trunk  OTHER :  * GAUGE POSITION: C = Center of tank F = Forward of Center A = Aft of Center					unk							
				tent we are awar					para a				· · · · · · · · · · · · · · · · · · ·
In ca In an	relationships, this material belongs to our client(s) and should be pumped ashore.  In case you are unable to do so please indicate your reasons below.  In any event, we have to advise our client(s) of the above and reserve his right to seek  compensation for the undelivered amount.  ORO TESTED  VES V NO IF NO REASON												
State	ements with reg	ards to flowabili	ty an	n. Id similiar adviso	ry services exp	ress personal		OBQ TESTED YES V NO IF NO REASON				***************************************	
opinions without responsibility for SGS.  ROB SAMPLED					PLED	YES 🗸	NO IF NO	REASON					
							100	DRAFT:	FWD (P) 4-1		AFT (P) 1-6	LIS	Γ: [♀] (P) / (S)
SEC-10	EE3	***************************************			TIM M	IC DONALD			(S) 4-1		( <b>S</b> ) 1-6		
VESSEL'S STAFF INSPECTOR				SEA CO	NDITION: CALM I	N PORT							

B) 3/51/55

F-14	Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page of the Page o					
PORT / TEHMINAL: Lake Charles, La / Citgo	OFFICE: LAKE CHARLES TEL: (337) 625-1455					
VEGSEL: CCL 7 VOY #:	INSPECTOR(S): T. MC DONALD					
DATE: 3/30/2009	SGS FILE: 135919					
CARGO: SPENT CAUSTIC CLIENT: CES Environmental REF: TBD						
SGS	GO QUANTITY OPTION Oil Gas & Chemicals Services Division.					
✓ AT LOADING □ AT TRANSFER □ AT DISCHARGE	RESIDUAL CLEAN PRODUCTS CHEMICALS/GASES					
ABOVE VESSEL WILL  V LOAD  DISCHARGE	✓ AT THIS TERMINAL AT (SPECIFY):					
AS PER CHARTER PARTY AMENDED C/P	PRINCIPAL'S INSTRUCTIONS OTHER (SPECIFY)					
FOLLOWING QUANTITY(S) OF SPENT CAUSTIC						
( ) LT [	MT POUNDS OTHER (SPECIFY) 9' 6" DRAFTTIM					
OR: ( ) BBLS	M³ OTHER AT STD. TEMP OBSERV. TEMP					
THIS QUANTITY(S) IS SPECIFIED AS:  MINIMUM MAXIMUM MINIMAX PE	LUS OR MINUS OTHER (SPECIFY) 1					
*PLUS OR MINUS %" IS THE OPTION OF	VESSEL TERMINAL CLIENT 1					
*PLUS OR MINUS %" IS OPTED FOR BY	VESSEL TERMINAL CLIENT 2					
	CIPAL					
	2					
SIGNATURES) VESSEL'S STAFF:	DATE: TIME: 2					
TERMINAL REPRESENTATIVE :	DATE: TIME: 2					
INSPECTOR: TIM MC DONALD						
ARE STOP GAUGES : - TAKEN	BY INSPECTOR YES NO 2:					
	DV TEDSHILL (VECOE) VCC NO					
	SSED BY INSPECTOR YES NO 33					
REMARKS:	33					
	30					
	37					
	38					
	39					
	40					
	41					
	42					
	43					
	44					
	SUREMENTS WHEN REQUIRED BY OUR CLIENTS; HOWEVER, VESSEL AND R OBSERVATION OF STOP GAUGES, VALVE SETTING AND PUMPING INTO AND OUT					
	OPERATIONS. VOLUMETRIC OR WEIGHT COMPOSITES CAN BE PREPARED FROM DWEVER, DUE TO THE INHERENT DIFFICULTY IN ACHIEVING A HOMOGENEOUS ACCEPT ANY RESPONSIBILITY.					
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	<u>්</u> ක්					



#### Inspection Report Transfer

Subject : Federal Rhine to CCL 7

4/9/2009

Our ref.: 137159

Product : Oily Residue

Location: Port Arthur, TX / Oxbow

Client ref.:

Client: CES Environmental

Summary of Figures	Bbls @ 60°F	Gallons @ 60°F	
Vessel's Measurements (Federal Rhine)			
Vessel's figures TCV on board before Transfer	89.32	3,751.24	
Vessel's figures after Transfer (ROB) Free Water	0.00		
Vessel's figures after Transfer (ROB) Liquid	9.06		
Vessel's figures after Transfer (ROB) Non Liquid	0.00		
Vessel's figures after Transfer (ROB) Total	9.06	380.40	
Vessel's figures TCV Transferred	80.26	3,370.84	
Vessel's figures Free Water Transferred	0.00	0.00	
Vessel's figures GSV discharged	80.26	3,370.84	

#### Vessel's Measurements (CCL 7) Vessel's figures TCV on board before Transfer

Vessel's figures TCV on board before Transfer	0.00	0.00
Vessel's figures after Transfer (OBQ) Free Water	0.00	
Vessel's figures after Transfer (OBQ) Liquid	0.00	
Vessel's figures after Transfer (OBQ) Non Liquid	0.00	
Vessel's figures after Transfer (OBQ) Total	115.17	4,837.00
Vessel's figures TCV Transferred	115.17	4,837.00
Vessel's figures Free Water Transferred	0.00	0.00
Vessel's figures GSV Transferred	115.17	4,837.00

Vessel's Experience Factor Cargo stowage Cargo tanks no(s):

FEDERAL RHINE [BSOT, SLUDGE], CCL 7 [1C]

#### **Letter of Protest**

VESSEL TO VESSEL DIFFERENCE GREATER THAN 0.05%

### Samples See Report

Quality: N/A Comments

### **Time Log**

4/8/2009	0801	INSPECTOR NOTIFIED
	0850	INSPECTOR ARRIVED
	0930	INSPECTOR ABOARD
	0930	COMMENCE KEY MEETING
	0935	* CCL 7 ALONGSIDE FEDERAL RHINE
	0940	COMPLETE KEY MEETING
	0940	COMMENCE CARGO INSPECTION
	1020	COMPLETE CARGO INSPECTION, VESSEL SAMPLED

SGS North America Inc.

Oil, Gas & Chemicals Services

www.sgs.com

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1025	COMMMENCE INSPECTION, CCL 7
1040	COMPLETE INSPECTION, CCL 7 AWAITING FLANGE FOR CARGO HOSE
1545	* CARGO HOSE CONNECTED-1X4"
1550	* COMMENCE TRANSFER
1731	INSPECTOR NOTIFIED
1820	INSPECTOR ARRIVED
1900	INSPECTOR DEPARTED
2045	* SUSPEND TRANSFER, VESSEL SHIFT
2135	* RESUME TRANSFER
2355	* COMPLETE TRANSFER
0001	* CARGO HOSE DISCONNECTED
0010	INSPECTOR ABOARD
0015	COMMENCE ROB INSPECTION
0025	COMPLETE ROB INSPECTION
0035	COMPLETE ROB CALCULATIONS
0045	COMMENCE CARGO INSPECTION, CCL 7
0055	COMPLETE CARGO INSPECTION, CCL 7
0105	COMPLETE CARGO CALCULATIONS
0110	INSPECTOR DEPARTED
	1040 1545 1550 1731 1820 1900 2045 2135 2355 0001 0010 0015 0025 0035 0045 0055 0105

COMPLETE INSPECTION, CCL 7 AWAITING FLANGE FOR CARGO HOSE

Darren W. Le Blanc for SGS Oil, Gas & Chemicals Services 4/9/2009

Shore volume calculated in accordance with:

Vessel volume calculated in accordance with:

Procedures as per applicable MPMS Chapter 3.1a, 7, 8.1 or 8.2, 12.1 or 12.2, 17.1, 17.2, 17.4.

Additional events, Stoppages and Delays

. Disclaimer

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2/2



# Inspection Report (LOADING)

Subject: CCL 7

Date:

4/12/2009

Our ref.: 137178

Product: SPENT CAUSTIC Client ref.: TBD

Location: Lake Charles, LA / CITGO

Client: CES ENVIRONMENTAL SERVICES

Summary of Figures	Bbls @ 60°F	Gallons @ 60°F	Long Tons	Metric Tonnes	Pounds
Shore Measurements Total Shore figures delivered GSV	7,736.80	324,945.60			
Average API Gravity @ 60°F					
Shoretanks no(s): TANK 182					
Vessel's Measurements					
Vessel's figures before loading (OBQ) Liquid	136.95				
Vessel's figures before loading (OBQ) Non Liquid	0.00				
Vessel's figures before loading (OBQ) Total	136.95	5,751.90			
Vessel's figures TCV on board after loading	7,990.07	335,582.94			
Vessel's figures TCV loaded	7,853.12	329,831.04			
Vessel's figures Free Water loaded	0.00	0.00			
Vessel's figures GSV loaded	7,853,12	329,831.04			

Cargo stowage Cargo tanks no(s):

CCL 7[1C, 2C, 3C]

#### **Samples**

SHORE TANK - 2X1 QUART RUNNING FROM EACH SHORE TANK BARGE - 2X1 QUART RUNNING PER CARGO TANK

### Quality

NONE REQUESTED

## **Time Log**

4/9/2009	0815	VESSEL ARRIVED
	0830	VESSEL DOCKED
	1300	INSPECTOR NOTIFIED
	1405	HOSE ON
	1455	INSPECTOR ARRIVED
	1530	SHORE TANK 182 GAUGED, TEMPERATURED AND SAMPLED OPEN
	1600	COMMENCED PRE LOAD DECK INSPECTION
	1615	COMPLETED PRE LOAD DECK INSPECTION
	1650	COMMENCED LOADING
	1750	TERMINAL SUSPENDED LOAD
	1830	CARGO HOSE DISCONNECTED
	1845	VESSEL SAILED
4/10/2009	0915	VESSEL ARRIVED BACK AT DOCK

SGS North America Inc.

Oil, Gas & Chemicals Services

4701 EAST NAPOLEON ST t(337-625-1455) t(337-625-1721) www.sgs.com

Member of the SGS Group (Société Générale de Surveillance)



	0935	VESSEL DOCKED
	1200	CARGO HOSE CONNECTED
	1330	COMMENCED LOADING
4/11/2009	0400	INSPECTOR NOTIFIED
	0445	INSPECTOR ARRIVED
	0620	TERMINAL SUSPENDED LOADING
	0745	SHORE TANK 182 GAUGED AND TEMPERATURED CLOSED FOR TANK TRANSFER
	0800	COMMENCED GRAVITATING FROM ST 185 TO 182
	1620	COMPLETED GRAVITATING FROM 185 TO 182
	1630	INSPECTOR ARRIVED
	1700	SHORE TANK 182 GAUGED, TEMPERATURED and SAMPLED OPEN
	2235	RESUMED LOADING
4/12/2009	0200	COMPLETED LOADING
	0230	CARGO HOSE OFF
	0300	COMMENCED POST LOAD DECK INSPECTION
	0320	COMPLETED POST LOAD DECK INSPECTION
	0320	COMMENCED CALCULATIONS
	0325	COMPLETED CALCULATIONS AND PLACED DOCUMENTS ON VESSEL
	0330	SHORE TANK 182 GAUGED AND TEMPERATURED CLOSED
	0350	INSPECTOR DEPARTED

### Additional events, Stoppages and Delays

4/9/2009 1750 TERMINAL SUSPENDED LOAD 4/11/2009 0620 TERMINAL SUSPENDED LOADING

BRETT DAIGLE for SGS Oil, Gas & Chemicals Services

4/14/2009

Shore volume calculated in accordance with: Vessel volume calculated in accordance with: ASTM D 1250-04 ASTM D 1250-04

Procedures as per applicable MPMS Chapter 3.1a, 7, 8.1 or 8.2, 12.1 or 12.2, 17.1, 17.2, 17.4.

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Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or faisification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

FIRCC REV. January 2007

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PORT / TERMINAL: Lake C	harles, LA / CITGO	OFFICE: Lake Charles, LA	TEL: 337-625-1455
VESSEL: CCL 7	VOY#:	INSPECTOR(S): JOE BUSBY	
DATE: 4/9/2009		SGS FILE: 137178	
CARGO: SPENT CAUSTIC	3	CLIENT: CES ENVIROMENTAL	REF: TBD

C		0
9	U	2

# **VOYAGE ANALYSIS REPORT**

JUJ					On Gas	& Chemicals Ser	vices Division.
✓ LOADING	V_V 1	TRANSFER	DISCHARGE	SUMMARY		Type of Voyage	C/P DATE
LOADING CO		manor er	DISCHARICE	- Johnson I		Simple	
Load Port/Terminal/Berth	,	ARRIVED	SAILED	Discharge Port/	Ferminal/Berth	ARRIVED	SAILED
LAKE CHARLES/ CITGO		4/9/2009	4/12/2009				
VOLUME UNITS		SUPPLIER	RECEIVER	VCF SHORE LOAD	VCF SHORE DISCH	VCF VESSEL LOAD	/CF VESSEL DISC
☐ BBLS ☐ GALS ☐ M³	□ Ł	CITGO	CES				
DESCRIPTION API/DEN	ISITY	TCV	FW	GSV	S&W	NSV	Reference
I. COMPARISON OF SHOP	E QUA	NTITIES IN CUS	ODY TRANSFER				
Bill of Lading 1.		7736.80	0.00	7736.80			(1)
Outturn 2.							(2)
Diff. 3.							(3)=(2) - (1)
Diff. % 4.							(4) = (3) / (1) × 100
Recalc, B/L 5.	(a)		Recalculate if	B/L and O/T use of	lifferent tables.		(5) (a) Vol. Diff.
II. VESSEL/SHORE QUAN	TITIES A		PORT(S)				
Vessel Sailing	A.	7990.07	0.00	7990.07	LIQUID		(A)
OBQ (All)	8.	136.95	0.00	136.95	136.95	0.00	(B)
Loaded	c.	7853.12	0.00	7853.12			(C)=(A) - (B)
Difference	D.	116.32	0.00	116.32			(D)=(C)-[(1) or (5)]
Difference %	E.	1.50%		1.50%			(E)=(D)/{(1)or(5)}x100
Load Vessel Ratio	F.	1.0150					(F)=(C)/[(1)or(5)]
Load VEF	G.						(G)
Theoretical Shore	Н.						(H)=(C) / (G)
Theoretical Shore Diff.	1.	-7736.80					(I)=(H) - [(1) or (5)]
Theoretical Shore Diff. %	J.	-100.00%					(J)=(I)/[(1) or (5)]×100
II. VESSEL/SHORE QUANT	TITIES A	AT ( ) DISC	HARGE PORT(S)				
Vessel Arrival	K.				LIQUID	NON-LIQUID	(K)
ROB (All)	L.						(L)
Discharged	M.						(M) = (K) · (L)
Difference	N.						(N) = (2) · (M)
Difference %	0.						(O) = (N) / (2) x 100
Discharge Vessel Ratio	Ρ.						(P) = (M) / (2)
Discharge VEF	Q.						(Q)
Theoretical Shore	R.						(R) = (M) / (Q)
Theoretical Shore Diff.	S.						(S) = (2) - (R)
Theoretical Shore Diff. %	T.	***************************************					$(T) = (S) / (2) \times 100$
III. VESSEL/'S COMPARISO	N OF L	OADING AND DI	SCHARGE PORT(S	) VCF TABLE M	UST BE CONSIST	ENT	
Transit Difference	U.						U) = (K) - (A)
Difference %	V.				LIQUID	NON-LIQUID	V) = (U) / (A) x 100
OBQ/ROB Difference	w.						W) = (L) - (B)
ADJ TCV DIFF :	(Quan		- OBQ (B) + ROB (L)	[S S&W at Load Por	&W(1)/GSV(1)]X100 t;	[S S&W at Disch Por	&W(2)/GSV(2)]X100 t:
Comments :							A
							<u> </u>
				Company :	SGS		4/12/ <b>2909.L</b>

EPAHO081001718

PORT / TERMINAL: Lake Charles, L	A / CITO	30	OFFICE La	ke Charles, LA	TEL	337-625-1455			
VESSEL CCL 7	VOY#			INSPECTOR(S): JOE BUSBY					
DATE 4/9/2009			SGS FILE 1						
CARGO SPENT CAUSTIC				S ENVIROMENTA	L HEF	TBD			
SGS		SHORE QUA	NTITY SUM	MARY Oil C	Sas & Chem	icals Services Division			
AT LOADING AT TRANS	FER [	AT DISCHARGE	<b>SHORE</b>	ETANK (STATIC)		METER (DYNAMIC)			
CUSTODY TRANSFER SAMPLE  API @ 60°F:		R.D. 60°F/60°F		Densi	ty Lbs/Gal	@			
S&W % VOL:	***************************************								
SOURCE OF ANALYTICAL DATA:									
					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
	UNITS	TANK 182 (1st)	TANK 182 (2nd)						
TOTAL CALCULATED VOLUME	<b> </b>	6514.04	1222.76		<u> </u>				
FREE WATER		0.00	0.00						
GROSS STANDARD VOLUME		6514.04	1222.76						
S & W VOLUME				<b></b>	<del> </del>				
(NET) STANDARD VOLUME									
WCF TABLE (1 )									
GROSS STANDARD WEIGHT									
S & W WEIGHT									
(NET) STANDARD WEIGHT									
				<u> </u>					
	L			1	<u> </u>				
	UNITS			SHORELINE	ТО	TAL DELIVERED			
TOTAL CALCULATED VOLUME						7736.80			
FREE WATER			·			0.00			
GROSS STANDARD VOLUME	L					7736.80			
S & W VOLUME									
(NET) STANDARD VOLUME									
					1000 a a company				
GROSS STANDARD WEIGHT			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		<b>y</b> GSV	NSV SV @			
S & W WEIGHT									
(NET) STANDARD WEIGHT									
STOWAGE O/B VESSEL:				······································	·				
				B/L DATE:					
REMARKS QUANTITY CONFIRM		QUANTITY		YES NO	IF YES S	STATE REASON			
with N/A of N/A		QUANTITIES	BASED ON TOV	FIGURES ONLY	<del></del>				
With of				***************************************					
Date <u>4/14/2009</u> Time <u>9:</u> 20 ppyright SGS-OG&C June 1997 - Rev Oct 2			Somina	s rendered according	lo nublished (	General Terms and Contiti			

F-2 PORT / TERMINAL: Lake Char	es, LA / CITGO		OFFICE: Lake	Charles, LA	্ষর TEL: 337-62			
VESSEL: CCL 7	VOY#:		INSPECTOR(S):					
DATE: 4/9/2009			SGS FILE: 137178					
CARGO: SPENT CAUSTIC			CLIENT: CES	ENVIROMENTA	AL REF: TBD			
SGS	VI	ESSEL QUA	NTITY SUM	MARY oil	Gas & Chemicals Se	rvices Division.		
AT LOADING 🗆 AT TI	RANSFER 🗀 AT	DISCHARGE	☐ CRUDE C	OIL.	<b>☑</b> PROD	ucts		
API @ 60°F:	□ R	.D. 60°F/60°F	***************************************	Densi	ty Lbs/Gal @			
8&W % VOL:								
OURCE OF ANALYTICAL DAT	A:							
	Vo	LUME	WCF		WEIGHT			
	BBLS	U.S. GALS	/// \	POUNDS	LONG TONS	METRIC TONS		
ESSEL'S QUANTITIES	V.E.F. CO	RRECTED :	O YES O	NO	VEF:			
TOTAL CALCULATED VOL	7990.07	335582.94	1					
REE WATER	0.00	0.00						
GROSS STANDARD VOLUME	7990.07	335582.94	ļ l					
S & W VOLUME								
NET) STANDARD VOLUME								
<b>✓</b> OBQ			ROB					
IQUID MATERIAL	136.95	5751.90						
ION-LIQUID MATERIAL	0.00	0.00						
REE WATER	0.00	0.00						
OTAL	136.95	5751.90						
LOADED QUANTIT	TES		DISCHARGED QUA	ANTITIES				
OTAL CALCULATED VOL	7853.12	329831.04						
REE WATER	0.00	0.00						
ROSS STANDARD VOLUME	7853.12	329831.04						
& W VOLUME								
IET) STANDARD VOLUME								
RE SLOPS INCLUDED IN CAL	CULATIONS	YES	NO	<b>∨</b> NO	SLOPS ON BOARD	· · · · · · · · · · · · · · · · · · ·		
STOWAGE O/B VESSEL:								
						<u> </u>		
REMARKS:						-2.5*		

PORT / TERMINAL: Lake Charles, LA / CITGO	OFFICE: Lake Charles, LA TEL: 337-625-1455
VESSEL: CCL 7 VOY #:	INSPECTOR(S): JOE BUSBY
DATE: 4/9/2009	SGS FILE: 137178
CARGO: SPENT CAUSTIC	CLIENT: CES ENVIROMENTAL REF: TBD

SGS

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## **TIME LOG**

Oil Gas & Chemicals Services Division.

	<u>uu</u>	On das	& Chemicals Services Division.
{	AT LOAD	ING AT TRANSFER	AT DISCHARGE
	YE	AR 2009 / MONTH JAN FEB MAR APR MAY JUN JUL A	UG SEP OCT NOV DEC
Date	Hour		
4/9	08:15	VESSEL ARRIVED	
4/9	08:30	VESSEL DOCKED	
4/9	13:00	INSPECTOR NOTIFIED	
4/9	14:05	HOSE ON	
4/9	14:55	INSPECTOR ARRIVED	
4/9	15:30	SHORE TANK 182 GAUGED, TEMPERATURED AND SAMPLED OPEN	
4/9	16:00	COMMENCED PRE LOAD DECK INSPECTION	
4/9	16:15	COMPLETED PRE LOAD DECK INSPECTION	
4/9	16:50	COMMENCED LOADING	
4/9	17:50	TERMINAL SUSPENDED LOAD	
4/9	18:30	CARGO HOSE DISCONNECTED	
4/9	18:45	VESSEL SAILED	
4/10	09:15	VESSEL ARRIVED BACK AT DOCK	
4/10	09:35	VESSEL DOCKED	
4/10	12:00	CARGO HOSE CONNECTED	
4/10	13:30	COMMENCED LOADING	
4/11	04:00	INSPECTOR NOTIFIED	
4/11	04:45	INSPECTOR ARRIVED	
4/11	06:20	TERMINAL SUSPENDED LOADING	
4/11	07:45	SHORE TANK 182 GAUGED AND TEMPERATURED CLOSED FOR TANK TE	RANSFER
4/11	08:00	COMMENCED GRAVITATING FROM ST 185 TO 182	
4/11	16:20	COMPLETED GRAVITATING FROM 185 TO 182	
4/11	16:30	INSPECTOR ARRIVED	
4/11	17:00	SHORE TANK 182 GAUGED, TEMPERATURED and SAMPLED OPEN	
4/11	22:35	RESUMED LOADING	
4/12	02:00	COMPLETED LOADING	
4/12	02:30	CARGO HOSE OFF	
4/12	03:00	COMMENCED POST LOAD DECK INSPECTION	
4/12	03:20	COMPLETED POST LOAD DECK INSPECTION	
4/12	03:20	COMMENCED CALCULATIONS	
4/12	03:25	COMPLETED CALCULATIONS AND PLACED DOCUMENTS ON VESSEL	
4/12	03:30	SHORE TANK 182 GAUGED AND TEMPERATURED CLOSED	
4/12	03:50	INSPECTOR DEPARTED	
DE	LAYS AND S	STOPPAGES:	
4/9	17:50	TERMINAL SUSPENDED LOAD	
4/11	06:20	TERMINAL SUSPENDED LOADING	
-			
-+			*
IMES N	ARKED * AF	RE SUBMITTED TO US.	TIME LOG PAGE OF U

* ACTION TAKEN :

AT ULLAGES :

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F-10								Page 1 of 2
	PORT / TERMINAL: Lake Charles, LA / CITGO					Charles, LA	TEL 337-625-1455	
VESSEL CCL 7	0.41107710		VOY#		INSPECTOR(S):		SGS FILE 137178	
CARGO SPENT	CAUSTIC				CLIENT CESE		REF TBD	
SGS		<b>✓</b>		£1111113	ASUREMENT:	S (STATIC)  AT DISCHARGE	Oil Gas & Chemicals S	Services Division.
SHORETANK #	182		GHT: FLOATIN			M FT-IN D FT D	MM OTHER:	
		ME: 15:30		E: 4/11/2009 TI	······································		OPEN	CLOSE
OBS. REF. HEIGHT		#WATER INNAGE			WATER INNAGE	INSPECTOR:	JOE BUSBY	JOE BUSBY
29-11-8	27-5-10	0-0-0	9-9-1/8	7-3-1/4	0-0-0	WITNESS:	002 00001	<u> </u>
						API @ 60ºF		
	***************************************					SOURCE		
			***************************************			AMBIENT AIR TEMP	72.0	72.0
						TEMP OF TANK SHELL	71	69
	<u></u>					AVG TEMP (0.5°F)	70.5	69.0
§ MEASUREMENT	S TAKEN IN ACC	DRDANCE WITH	:	INNAGE: API MPI	/IS 3.1A.9.2	AVG INNAGE	27-5-10	7-3-1/4
* FREE WATER D	ETERMINED IN AC	CORDANCE WITH		API MPMS 3.1A.10	D.1	AVG WATER INNAGE	0-0-0	0-0-0
# TEMPERATURE	S TAKEN IN ACCO	RDANCE WITH	1	API MPMS 7.6.4	······································	VOLUME UNITS 🗸 BBI	S M3 OTHER	:
^ VOLUME CALC	ULATED IN ACCO	RDANCE WITH	:	ASTM D 1250-04		TABLE VOLUME **	8816.80	2302.76
PROD TEMP	70.4 x 0.	<b>875</b> = 61.6000	PROD TEMP	69.0 x 0	. <b>875</b> = 60.3750	FREE WATER	0.00	0.00
(+) AIR TEMP	72.0 x 0	.125 = 9.0000	(+) AIR TEMP	72.0 x 0	.125 = 9.0000	OBSERVED VOLUME	8816.80	2302.76
TANK SHELLTEM	PERATURE:	= 71	TANK SHELL TE	MPERATURE	= 69	TANK SHELL CORR.	1.00000	1.00000
ROOF CORRECTI	ON INFO - STAND	ARD API:				OBSERVED VOLUME	8816.80	2302.76
CRITICAL ZONE F	RANGE FROM	то	ROOF	LEG HIGH	I D LOW	ROOF CORRECTION	0.00	0.00
		OP	EN	CL	OSE	GROSS OBSERVED VOL.	8816.80	2302.76
AVG INN/ULL IN C	CRITICAL ZONE	YES	<b>⊘</b> NO	YES	V NO	^VCF TABLE : (t 6B )	1.00000	1.00000
SIDEGAUGE/ATG		26-9-7	27-5-3	6-7-1/2	2 7-3-4	GROSS STANDARD VOL.	8816.80	2302.76
TEMPERATURES	5k	# PROBE	MERCURY	# Y PROBE	MERCURY	DIFFERENCE	651	4.04
* ACTION TAKEN	l :	□∪ □м	70.4 🗌 L		1 69 🗌 L	CUSTODY TRANSFER SAM	PLE:	
		Пм		□ M		API @ 60°F		
		OTHER*		OTHER*		S & W % VOL.		
SIDETEMP/REMC	)TE					S & W VOLUME		
PROBE WAS CHE	CKED PRIOR TO	USE 🗸 YES	NO 🗆	NOT USED		NET STANDARD VOLUME	***************************************	
SAMPLING			1 7 L		n D L	WCF TABLE : (t )		

CA-PACE (F) Ref TSh Temp: 60 . OP TEMP: "IS TABLE VOLUME IN ☑ BBLS ☐ M³ ☐ OTHER:
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GROSS STANDARD WT.

NET STANDARD WEIGHT

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**WEIGHT UNITS** 

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000	SHORE TANK MEA	SURFMENTS (STATIC)		
CARGO SPENT CAUSTIC		CLIENT CES ENVIROMENTAL	REF TBD	
VESSEL CCL 7	VOY#	INSPECTOR(S): JOE BUSBY	<b>SGS FILE</b> 137178	
PORT / TERMINAL: Lake Charles, LA	/ CITGO	OFFICE Lake Charles, LA	TEL 337-625-1455	
			- 14 No.	21 1111

CARGO SPENT	CAUSTIC				CLIENT CESE	ENVIROMENTAL	REF TBD	
222			SHOR	SUREMENT	S (STATIC)			
<u>505</u>		V	AT LOADING	AT	TRANSFER	AT DISCHARGE	Oil Gas & Chemicals S	ervices Division.
SHORETANK #	182	REF HEI	GHT: FLOATING	G G	AUGE UNITS	FT-IN II FT II	MM COTHER:	·
		ME: 17:00		E: 4/12/2009 TI			OPEN	CLOSE
OBS. REF. HEIGHT		» WATER INNAGE			*WATER INNAGE	INSPECTOR:	JOE BUSBY	JOE BUSBY
17-10-7/16	15-4-9	0-0-0	14-0-15	11-7-1	0-0-0	WITNESS:		
				-		API @ 60°F		
						SOURCE		
						AMBIENT AIR TEMP	72.0	72.0
						TEMP OF TANK SHELL	75	74
						AVG TEMP (0.5°F)	75.0	74.0
§ MEASUREMENT	S TAKEN IN ACCO	PRDANCE WITH	:	INNAGE: API MPN	1S 3.1A.9.2	AVG INNAGE	15-4-9	11-7-1
× FREE WATER D	ETERMINED IN AC	CORDANCE WITH	:	API MPMS 3.1A.10	).1	AVG WATER INNAGE	0-0-0	0-0-0
# TEMPERATURE	S TAKEN IN ACCO	RDANCE WITH	:	API MPMS 7.6.4		VOLUME UNITS 🗹 BBI	LS M3 OTHER	:
^ VOLUME CALCI	JLATED IN ACCOR	IDANCE WITH	:	ASTM D 1250-04		TABLE VOLUME **	4917.71	3694.95
PROD TEMP	75.0 <b>x 0.</b>	<b>875 =</b> 65.6250	PROD TEMP	74.0 x 0.875 = 64.7500		FREE WATER	0.00	0.00
(+) AIR TEMP	72.0 <b>x 0</b> .	125 = 9.0000	(+) AIR TEMP	$72.0 \times 0.125 = 9.0000$		OBSERVED VOLUME	4917.71	3694.95
TANK SHELLTEM	PERATURE:	= 75	TANK SHELL TE	MPERATURE	= 74	TANK SHELL CORR.	1.00000	1.00000
ROOF CORRECT	ON INFO - STANDA	ARD API:				OBSERVED VOLUME	4917.71	3694.95
CRITICAL ZONE F	RANGE FROM	то	ROOF	LEG 🗌 HIGH	LOW	ROOF CORRECTION	0.00	0.00
		OP	EN	CL	OSE	GROSS OBSERVED VOL.	4917,71	3694.95
AVG INN/ULL IN C	RITICAL ZONE	YES	<b>☑</b> NO	YES	V NO	^VCF TABLE : (t 6B )	1.00000	1.00000
SIDEGAUGE/ATG		14-8-3/8	15-4-9	10-10-7/	8 11-7-1	GROSS STANDARD VOL.	4917.71	3694.95
TEMPERATURES	»F	# PROBE	MERCURY	# PROBE	MERCURY	DIFFERENCE	122	2.76
* ACTION TAKEN	:		75 🗍 L		1 74 🗌 <b>L</b>	CUSTODY TRANSFER SAM	PLE:	
		O M		□ M		API @ 60ºF		
		OTHER*		OTHER*		S&W%VOL.		
SIDETEMP/REMO	TE					S & W VOLUME		
PROBE WAS CHECKED PRIOR TO USE V YES NO		NOT USED		NET STANDARD VOLUME				
SAMPLING					1 IL	WCF TABLE : (t )		
* ACTION TAKEN	l :	□т □в	ПВ	□т □в	B	GROSS STANDARD WT.		
		OTHER*		OTHER*		NET STANDARD WEIGHT		
AT ULLAGES :						WEIGHT UNITS LT	MT LBS	OTHER:
CHECKED	)	Ref TSh Temp :	60	OP TEMP :		** IS TABLE VOLUME IN	BBLS M3	OTHER:
Paramete oce oce	C 2001 - Day April 20	05				Coming roads	and annualizate with link and the	

F-15											Pe	igo (Mari of )	
PORT/								OFFICE: Lake Charles, LA TEL: 337-625-1455					
VESSEL: CCL 7 VOY #:						INSPECTOR(S): JOE BUSBY SGS FILE: 137178							
DATE: 4/9/2009 CARGO: SPENT CAUSTIC						CLIENT: CES	S ENVIROME	NTAL	REF: TBD				
SC	<b>2C</b>	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		VES	SEL MEASUF	REMENT	SYSTEM	<b>✓</b> OPEN	CLOSE / F	RESTRICTED			
<u>Or</u>	10				ARRIVAL	<b>✓</b> D	EPARTURE				Chemicals Se	ervices Division.	
		OADING 🗌	AT TRANS	HIPMENT	AT DISCHAR	GE	✓ CAR	GO TANKS	BALL/	AST TANKS	NO	N/OTHER CARG	0
UNITS:		FT-IN	I FT		MM 🗀	OTHER:		UNITS : 🗹	BBLS 📋	U.S. GALS	M³	OTHER:	
TANK #	REFERENCE HEIGHT	OBSERVED REFERENCE HEIGHT	¤ INNAGE	WATER	TEMPERATURES °F § PROBE	AVG. TEMP	CORRECTED MEASURE	TOTAL OBSERVED VOLUME	FREE WATER	GROSS OBSERVED VOLUME	^ V.C.F. (t ^{6B} )	GROSS STANDARD VOLUME	*
1C	15-7	15-7	10-6-3/4	0-0-0	72.1	72.1	10-6-3/4	2734.09	0.00	2734.09	1.00000	2734.09	С
2C	15-7	15-7	10-5	0-0-0	72.0	72.0	10-5	2725.55	0.00	2725.55	1.00000	2725.55	С
3C	15-7	15-7	9-8	0-0-0	72.5	72.5	9-8	2530.43	0.00	2530.43	1.00000	2530.43	С
PROBE	WAS CHECKI	ED PRIOR TO US	E Y YE	S N	IO NOT US	ED	TOTALS	7990.07	0.00	7990.07		7990.07	
GAUGE	LOCATION	I: STAND	PIPE	G.H. on	Expansion Trunk		CORREC	TED MEASURE	: w = Wedge	corrected, t = T	rim corrected		
		OTHE	₹;				API @ 60F / D	ENSITY @ 15C		so	URCE:		
* GAU	GE POSITIO	N: C = Center	of tank F = Fo	orward of Ce	nter A = Aft of Cente	er .	S&W-VOL	%:		so	URCE :		
SAMPL	ES DRAWN	: 2 QT RUN	NING PER TA	ANK			S & W - VOL			WCF TAE	BLE : (t	)	
							NET STANDA	RD VOLUME					
BALLA	ST TANKS F	PERMANENT	Y YES	IF 🗌 NO	(SEE F-15 BALLAST	TANKS)	GROSS STAN	IDARD WEIGH	T				
SEASU	ICTION SEA	L#'S:					NET STANDA	RD WEIGHT					
DRAFT	: FWD	( <b>P)</b> 9-6	AFT (P	9-6	LIST:	⁹ (P) / (S)	TOTAL CALC	. VOL. DEPAR	TURE				
	1	( <b>S</b> ) 9-6	(\$	9-6			REMARKS:						
SE	A CONDITIO	N: CALM IN F	PORT					CULATED IN ACC			ASTM D 125	0-04	
				INE BLISB	V		I LIQUID LEVEL	<b>GAUGES IN ACC</b>	CORDANCE WIT	Н	ADI MOME 1	7050	

STEMPERATURE DETERMINATION IN ACCORDANCE WITH

API MPMS 17.2.5,2

API MPMS 17.2.5.3

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JOE BUSBY

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PORT/	TERMINAL: L	ake Charles, I	LA.		/ CITGO			OFFICE: La	ke Charles, LA		TEL: 33	7-625-1455	
VESSEL	-: CCL 7				VOY #:			INSPECTOR(S	S): JOE BUSBY		SGS FILE	: 137178	
DATE:	4/9/20	09 <b>CARGO</b> : 5	SPE	NT CAUSTIC				CLIENT: CE	S ENVIROMENT	AL	REF: TB	D	
SI	25					OBQ			SUREMENT				
	<u> </u>		f=====			DO NOT USE V		EMPERATURE				Chemicals Service	
UNITS:	✓ F	T-IN TOBSERVED	L)	FT OBSERVED	FREE	□ C NON-LIQUID	THER:	CORRECTED	UNITS: BI	BLS	U.S. GALS	M ³ O	THER:
TAINN#	HEIGHT	REFERENC E HEIGHT		INNAGE	WATER INNAGE	INNAGE	TEMP	MEASURE	OBSERVED VOLUME	(t 6B)	WATER VOLUME	VOLUME	LIGOID VOLUME
1C	15-7	15-7	С	0-0-0	0-0-0	0-0-0	60	0-0-0	0.00	1.00000	0.00	0.00	0.00
2C	15-7	15-7	C	0-0-0	0-0-0	0-0-0	60	0-0-0	0,00	1.00000	0.00	0.00	0.00
3C	15-7	15-7	С	0-6-0	0-0-0	0-0-0	60	0-6-0	136.95	1.00000	0.00	0.00	136.95
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1. 1.	) 1845 CALCUI	LATED IN ACCO	<u></u>	L WITH		<u> </u>	1						
		·			ASTM D 12			TOTALS	136.95	j	0.00	0.00	136.95
Ont	enair of our cire	ent(s) we would I		•		our opinion :		1	1997 700			orrected, t = Trim o	
		Bbls of L	IQL	IID MATERI	IAL			GAUGE LOC	ATION: U ST		<b>⊻</b> G.H	. on Expansion tru	nk
		Bbls of N	ION	-LIQUID MA	ATERIAL				OTHER:				
		our vessel. To th							Party Party	Part Sal	,	f Center A = Aft of	Center
		naterial belongs ble to do so plea				d ashore.		OBQ SAM	PLED [_]	YES 🔀	NO IF NO	REASON	
in a	ny event, we hav	ve to advise our i	clien	t(s) of the above		right to seek							
Stat	ements with reg	gards to flowabili	ty ar		ory services exp	ress personal		OBQ TES	TED L.J.	YES 🗹	NO IF NO	REASON	
opin	ions without re	sponsibility for S	GS.				······································		PIED	VEC 12			
		····					***************************************	ROB SAM	PLED	YES 🗸	NO IF NO	REASON	
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						- 0110011		DRAFT:	FWD (P) 2-6		AFT (P) 2-6	LIST	: ^º (P) / (S)
CLE	CVEN				JOI	E BUSBY		1	<b>(S)</b> 2-6		<b>(S)</b> 2-6		

SEA CONDITION: CALM IN PORT

Services rendered according to published General Terms and Conditions

INSPECTOR

CHECKED VESSEL'S STAFF COMMINGS-OGRC 1997 - Rev April 2005 30 4/14/65

VESSEL REPRESENTATIVE

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PORT / TERMINAL:	1 -1 - 01 1							
	Lake Chanes	, LA / CITGO		OFFICE: La	ke Charles, LA	TEL:	337-625-1	1455
VESSEL: CCL 7		VOY #:		INSPECTOR(S	): JOE BUSB	Y		
DATE: 4/9/2009				SGS FILE: 1	37178			
CARGO: SPENT C	AUSTIC			CLIENT: CE	S ENVIROMEN	TAL REF:	TBD	
SGS			·	CLEANLINE	ESS INSPECT O	il Gas & Chem		ces Division.
AT LOADING	AT TRA		AT DISCHARGE		SHORE		VESSEL	
THE IN	NFORMATION ON T	HIS LIRIS F-7 WILL BE I	USED TO COMPLETE	LIRIS F-9 WAS SUBI	MITTED TO US BY THI	E PERSON(S) INDIC	CATED BELOW	
WE CONSULTED F				) (TIME)		VITH:		
	SEL'S STAFF	✓ BARGE	OPERATOR	L TERMII	NAL REPRESEN	TATIVE	CHART	ERER
OTHER (SPEC								
PLEASE PRINT NA	AME(S)							
					······································			
TANK MATERIAL:			···		**************************************	······································		
TANK #:		1C	2C	3C				
MATERIAL		MILD STEEL	MILD STEE	L MILD	STEEL			
COATING NAME		N/A	N/A	N/A				
APPARENT CONDIT	TION *	ACCEPTABLE	ACCEPTAE	BLE ACCE	PTABLE			
TANK #:								
MATERIAL								
COATING NAME								
	TION *							
APPARENT CONDIT		ST MANUFA	CTURERS	OTHER (SP	ECIFY)	СН	CKLIST	
APPARENT CONDIT COATING WAS CHE IF NOT CHECKED, I	ECKED AGAINS REASO	• International Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Contr						
	ECKED AGAINS REASO J. % MISSING	% DISCOLORED	%PEELING A	CCEPTABLE 6	etc. (ALL PERCE	NTAGES ARE		IATIONS)
APPARENT CONDIT COATING WAS CHE IF NOT CHECKED, F * SELECT: e.g	ECKED AGAINS REASO J. % MISSING	% DISCOLORED	%PEELING A	CCEPTABLE 6	etc. (ALL PERCE	NTAGES ARE		IATIONS)
APPARENT CONDITION COATING WAS CHE IF NOT CHECKED, IF SELECT: e.g DUR INSPECTION FOR F-9	ECKED AGAINS REASO  J. % MISSING COVERS THE CLE	% DISCOLORED	%PEELING A	CCEPTABLE 6	etc. (ALL PERCE	NTAGES ARE		IATIONS)
APPARENT CONDITION COATING WAS CHE IF NOT CHECKED, IF SELECT: e.g DUR INSPECTION FOR F-9 PREVIOUS CARGO	ECKED AGAINS REASO  3. % MISSING 9 COVERS THE CLE	% DISCOLORED ANLINESS OF THE CO.	%PEELING AI	CCEPTABLE &	etc. (ALL PERCE D TO CARGO CONTAR	NTAGES ARE	APPROXIM	
APPARENT CONDITION COATING WAS CHE IF NOT CHECKED, IF * SELECT: e.g DUR INSPECTION FOR F-9 PREVIOUS CARGO TANK#	ECKED AGAINS REASO  J. % MISSING COVERS THE CLE DES: THIRD	% DISCOLORED  ANLINESS OF THE CO.	%PEELING AI	CCEPTABLE & TABILITY IN REGARI	etc. (ALL PERCE D TO CARGO CONTAR	ENTAGES ARE MINATION.	APPROXIM	MPATIBLE
APPARENT CONDITION COATING WAS CHE F NOT CHECKED, F * SELECT: e.g DUR INSPECTION FOR F-9  PREVIOUS CARGO TANK#  SF	PENT CAUST	% DISCOLORED ANLINESS OF THE CO.  LAST IC S	%PEELING AN ATINGS, NOT ITS SUIT SECOND SPENT CAUSTIN	CCEPTABLE & TABILITY IN REGARD  LAST	PIC. (ALL PERCE D TO CARGO CONTAR LA SPENT CAUST	ENTAGES ARE MINATION.  AST	APPROXIM	MPATIBLE S   NO
APPARENT CONDITION COATING WAS CHE F NOT CHECKED, F SELECT: e.g DUR INSPECTION FOR F-9 PREVIOUS CARGO TANK# S SF	ECKED AGAINS REASO  J. % MISSING COVERS THE CLE DES: THIRD	% DISCOLORED ANLINESS OF THE CO.  LAST IC S	%PEELING AI	CCEPTABLE & TABILITY IN REGARD  LAST	etc. (ALL PERCE D TO CARGO CONTAR	ENTAGES ARE MINATION.  AST	COI  V YE	MPATIBLE S NO
APPARENT CONDITION COATING WAS CHE IF NOT CHECKED, IF SELECT: e.g DUR INSPECTION FOR F-9 PREVIOUS CARGO TANK#  SF SF	PENT CAUST	% DISCOLORED ANLINESS OF THE CO.  LAST IC S	%PEELING AN ATINGS, NOT ITS SUIT SECOND SPENT CAUSTIN	CCEPTABLE & TABILITY IN REGARD  LAST	PIC. (ALL PERCE D TO CARGO CONTAR LA SPENT CAUST	ENTAGES ARE MINATION.  AST	COI V YE V YE	MPATIBLE S NO S NO
APPARENT CONDITION COATING WAS CHE F NOT CHECKED, F SELECT: e.g DUR INSPECTION FOR F-9 PREVIOUS CARGO TANK# S SF	PENT CAUST	% DISCOLORED ANLINESS OF THE CO.  LAST IC S	%PEELING AN ATINGS, NOT ITS SUIT SECOND SPENT CAUSTIN	CCEPTABLE & TABILITY IN REGARD  LAST	PIC. (ALL PERCE D TO CARGO CONTAR LA SPENT CAUST	ENTAGES ARE MINATION.  AST	COI V YE V YE V YE	MPATIBLE S NO S NO S NO S NO
APPARENT CONDITION COATING WAS CHE F NOT CHECKED, F SELECT: e.g DUR INSPECTION FOR F-9 PREVIOUS CARGO TANK# S SF	PENT CAUST	% DISCOLORED ANLINESS OF THE CO.  LAST IC S	%PEELING AN ATINGS, NOT ITS SUIT SECOND SPENT CAUSTIN	CCEPTABLE & TABILITY IN REGARD  LAST	PIC. (ALL PERCE D TO CARGO CONTAR LA SPENT CAUST	ENTAGES ARE MINATION.  AST	COI  V YE  VE  VE  VE  VE  VE	MPATIBLE S NO S NO S NO S NO S NO
APPARENT CONDITION COATING WAS CHE IF NOT CHECKED, IF SELECT: e.g DUR INSPECTION FOR F-9 PREVIOUS CARGO TANK#  SF SF	PENT CAUST	% DISCOLORED ANLINESS OF THE CO.  LAST IC S	%PEELING AN ATINGS, NOT ITS SUIT SECOND SPENT CAUSTIN	CCEPTABLE & TABILITY IN REGARD  LAST	PIC. (ALL PERCE D TO CARGO CONTAR LA SPENT CAUST	ENTAGES ARE MINATION.  AST	COI V YE VE YE YE YE YE YE	MPATIBLE S NO S NO S NO S NO S NO S NO
APPARENT CONDITION COATING WAS CHE IF NOT CHECKED, IF SELECT: e.g DUR INSPECTION FOR F-9 PREVIOUS CARGO TANK#  SF SF	PENT CAUST	% DISCOLORED ANLINESS OF THE CO.  LAST IC S	%PEELING AN ATINGS, NOT ITS SUIT SECOND SPENT CAUSTIN	CCEPTABLE & TABILITY IN REGARD  LAST	PIC. (ALL PERCE D TO CARGO CONTAR LA SPENT CAUST	ENTAGES ARE MINATION.  AST	COO  YE  YE  YE  YE  YE  YE  YE  YE  YE	MPATIBLE S NO S NO S NO S NO S NO S NO S NO
APPARENT CONDITION COATING WAS CHE F NOT CHECKED, F SELECT: e.g DUR INSPECTION FOR F-9 PREVIOUS CARGO TANK#  C SF C SF	PENT CAUST	% DISCOLORED ANLINESS OF THE CO.  LAST IC S	%PEELING AN ATINGS, NOT ITS SUIT SECOND SPENT CAUSTIN	CCEPTABLE & TABILITY IN REGARD  LAST	PIC. (ALL PERCE D TO CARGO CONTAR LA SPENT CAUST	ENTAGES ARE MINATION.  AST	COI V YE VE YE YE YE YE YE	MPATIBLE S NO S NO S NO S NO S NO S NO S NO
APPARENT CONDITION COATING WAS CHE F NOT CHECKED, I SELECT: e.g UR INSPECTION FOR F-9 PREVIOUS CARGO TANK#  SF SF	PENT CAUST	% DISCOLORED  EANLINESS OF THE CO.  LAST  IC S  IC S	%PEELING ANATINGS, NOT ITS SUIT SECOND SPENT CAUSTIN SPENT CAUSTIN	CCEPTABLE & TABILITY IN REGARD  LAST  C	PIC. (ALL PERCE D TO CARGO CONTAR LA SPENT CAUST	ENTAGES ARE WHNATION.  AST FIC	APPROXIM  CO  YE  YE  YE  YE  YE  YE  YE  YE  YE  Y	MPATIBLE S NO S NO S NO S NO S NO S NO S NO
APPARENT CONDITION COATING WAS CHE F NOT CHECKED, I SELECT: e.g PURINSPECTION FOR F-9 PREVIOUS CARGO TANK# SSF	PENT CAUST	% DISCOLORED  EANLINESS OF THE CO.  LAST  IC S  IC S	%PEELING ANATINGS, NOT ITS SUIT SECOND SPENT CAUSTIN SPENT CAUSTIN	CCEPTABLE & TABILITY IN REGARD  LAST	SPENT CAUST	ENTAGES ARE MINATION.  AST FIC FIC PRESSED WI	COI  Y YE  YE  YE  YE  YE  YE  YE  TH INERT G	MPATIBLE S NO S NO S NO S NO S NO S NO S NO S NO
APPARENT CONDITION COATING WAS CHE F NOT CHECKED, I SELECT: e.g PURINSPECTION FOR F-9 PREVIOUS CARGO TANK# SSF SSF CSF CSF CSF CSF CSF CSF CSF CSF	PENT CAUST	% DISCOLORED  EANLINESS OF THE CO.  LAST  IC S  IC S	%PEELING ANATINGS, NOT ITS SUIT SECOND SPENT CAUSTIN SPENT CAUSTIN	CCEPTABLE & TABILITY IN REGARD  LAST  C	SPENT CAUST	PRESSED WI	COI Y YE YE YE YE YE YE YE PRESSU	MPATIBLE S NO S NO S NO S NO S NO S NO S NO S NO
APPARENT CONDITION COATING WAS CHE F NOT CHECKED, F SELECT: e.g PUR INSPECTION FOR F-9 PREVIOUS CARGO TANK#  C SF C SF C LINES - PUMPS:	PENT CAUST	% DISCOLORED  EANLINESS OF THE CO.  LAST  IC S  IC S	%PEELING ANATINGS, NOT ITS SUIT SECOND SPENT CAUSTIN SPENT CAUSTIN	CCEPTABLE & TABILITY IN REGARD  LAST  C	SPENT CAUST	PRESSED WIYES NO	APPROXIM  COO  YE  YE  YE  YE  YE  PRESSU	MPATIBLE S NO S NO S NO S NO S NO S NO S NO S NO
APPARENT CONDITION COATING WAS CHE IF NOT CHECKED, IF * SELECT: e.g DUR INSPECTION FOR F-9  PREVIOUS CARGO TANK#  C SF C SF C SF C SF C SF	PENT CAUST	% DISCOLORED  EANLINESS OF THE CO.  LAST  IC S  IC S	%PEELING ANATINGS, NOT ITS SUIT SECOND SPENT CAUSTIN SPENT CAUSTIN	CCEPTABLE & TABILITY IN REGARD  LAST  C	SPENT CAUST	PRESSED WI YES NO YES NO	APPROXIM  COO  YE  YE  YE  YE  YE  PRESSU	MPATIBLE S NO S NO S NO S NO S NO S NO S NO S NO
APPARENT CONDITION COATING WAS CHE IF NOT CHECKED, IF * SELECT: e.g DUR INSPECTION FOR F-9  PREVIOUS CARGO TANK#  C SF C SF C SF C SF C SF	PENT CAUST	% DISCOLORED  EANLINESS OF THE CO.  LAST  IC S  IC S	%PEELING ANATINGS, NOT ITS SUIT SECOND SPENT CAUSTIN SPENT CAUSTIN	CCEPTABLE & TABILITY IN REGARD  LAST  C	SPENT CAUST	PRESSED WIYES NO	APPROXIM  COO  Y YE  YE  YE  YE  YE  PRESSU  PRESSU	MPATIBLE S NO S NO S NO S NO S NO S NO S NO S NO

INSPECTOR

DRT / TERMINAL: Lake Charles, LA / CITGO	OFFICE: Lake Charles, LA TEL: 337-625-1455
ESSEL: CCL 7 VOY #:	INSPECTOR(S): JOE BUSBY
ATE: 4/9/2009	SGS FILE: 137178
ARGO: SPENT CAUSTIC	CLIENT: CES ENVIROMENTAL REF: TBD
	NLINESS INSPECTION
SGS	Oil Gas & Chemicals Services Division.
AT LOADING AT TRANSFER AT DISCHARGE	☐ AS INSPECTION ONLY ☐ AS PRE-INSPECTION  WITH CUSTODY TRANSFER
USE A SEPARA	TE FORM F-9 PER INSPECTION
THIS IS THE 🗹 FIRST 🗌 SECOND	THIRD TH INSPECTION
	~~~~
TANK(S): 1-3 C	
BASED ON SUBMITTED INFORMATION (SEE LIF	RIS F-7) AND :
learner.	DECKLEVEL (SEE LIRIS F-15 OR F-20)
MEASURING OF RESIDUES FROM DEC	
PHYSICAL ENTRY (TANK SAFE ATMOS	SPHERE STATEMENT BELOW MUST BE COMPLETED PRIOR TO ENTRY)
AND USUAL INSPECTION	
Bathana st	ALYTICAL REPORT ON FILE)
AND TESTING OF HEATING	·
₩ WERE ACCEPTED FOR CLEANLINESS TO CARRY	A CARGO OF SPENT CAUSTIC
WERE REJECTED FOR CLEANLINESS TO CARRY A	A CARGO OF
REASON:	
SHIP'S STAFF AND/OR SGS SUPERVISOR AND/	OR CLIENT NOTIFIED ON BY
E MODEONION COMPLETED AT	THE 4/9/2009
INSPECTION COMPLETED AT 16:15 HRS ON 1	DEDTIL DI ALAE AE DEE MADEATAN
TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING	BERTHIN CASE OF PRE-INSPECTION
TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING	
TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING	JOE BUSBY
TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING SIGNATURES: FOR VESSEL	JOE BUSBY FOR TERMINAL INSPECTOR
TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING SIGNATURES: FOR VESSEL IS THIS TANK ACCEPTANCE BASED SOLELY ON SUBMITT	JOE BUSBY FOR TERMINAL INSPECTOR TED INFORMATION EVALUATION ? YES NO
TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING SIGNATURES: FOR VESSEL IS THIS TANK ACCEPTANCE BASED SOLELY ON SUBMITT	JOE BUSBY FOR TERMINAL INSPECTOR
TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING SIGNATURES: FOR VESSEL IS THIS TANK ACCEPTANCE BASED SOLELY ON SUBMITT FYES; ISSUE N.O.A.D. AND INFORM YOUR SGS SUI	JOE BUSBY FOR TERMINAL INSPECTOR TED INFORMATION EVALUATION? YES NO PERVISOR AND/OR CLIENT(S) IMMEDIATELY.
TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING SIGNATURES: FOR VESSEL IS THIS TANK ACCEPTANCE BASED SOLELY ON SUBMITT F YES; ISSUE N.O.A.D. AND INFORM YOUR TANK SAFE A	JOE BUSBY FOR TERMINAL INSPECTOR FED INFORMATION EVALUATION? YES NO PERVISOR AND/OR CLIENT(S) IMMEDIATELY. ATMOSPHERE STATEMENT
TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING SIGNATURES: FOR VESSEL IS THIS TANK ACCEPTANCE BASED SOLELY ON SUBMITT F YES; ISSUE N.O.A.D. AND INFORM YOUR TANK SAFE A e undersigned certifies that those tank(s) indicated or	FOR TERMINAL INSPECTOR TED INFORMATION EVALUATION? YES NO PERVISOR AND/OR CLIENT(S) IMMEDIATELY. ATMOSPHERE STATEMENT In line 13 of this page have been cleaned and gas freed as
TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING SIGNATURES: FOR VESSEL IS THIS TANK ACCEPTANCE BASED SOLELY ON SUBMITT F YES; ISSUE N.O.A.D. AND INFORM YOUR TANK SAFE A Be undersigned certifies that those tank(s) indicated or sorted on the reverse side of the SGS F-7 and that the	FOR TERMINAL INSPECTOR TED INFORMATION EVALUATION? YES NO PERVISOR AND/OR CLIENT(S) IMMEDIATELY. ATMOSPHERE STATEMENT In line 13 of this page have been cleaned and gas freed as tank(s) in question are in all respects safe for entry.
TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING SIGNATURES: FOR VESSEL IS THIS TANK ACCEPTANCE BASED SOLELY ON SUBMITT F YES; ISSUE N.O.A.D. AND INFORM YOUR TANK SAFE A e undersigned certifies that those tank(s) indicated or	FOR TERMINAL INSPECTOR TED INFORMATION EVALUATION? YES NO PERVISOR AND/OR CLIENT(S) IMMEDIATELY. ATMOSPHERE STATEMENT In line 13 of this page have been cleaned and gas freed as tank(s) in question are in all respects safe for entry.
TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING SIGNATURES: FOR VESSEL IS THIS TANK ACCEPTANCE BASED SOLELY ON SUBMITT FYES; ISSUE N.O.A.D. AND INFORM YOUR TANK SAFE As a undersigned certifies that those tank(s) indicated or sorted on the reverse side of the SGS F-7 and that the a undersigned hereby grants permission for SGS person	FOR TERMINAL INSPECTOR TED INFORMATION EVALUATION? YES NO PERVISOR AND/OR CLIENT(S) IMMEDIATELY. ATMOSPHERE STATEMENT In line 13 of this page have been cleaned and gas freed as tank(s) in question are in all respects safe for entry.
TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING SIGNATURES: FOR VESSEL IS THIS TANK ACCEPTANCE BASED SOLELY ON SUBMITT F YES; ISSUE N.O.A.D. AND INFORM YOUR TANK SAFE A Be undersigned certifies that those tank(s) indicated or sorted on the reverse side of the SGS F-7 and that the	FOR TERMINAL INSPECTOR TED INFORMATION EVALUATION? YES NO PERVISOR AND/OR CLIENT(S) IMMEDIATELY. ATMOSPHERE STATEMENT In line 13 of this page have been cleaned and gas freed as tank(s) in question are in all respects safe for entry. Sonnel to enter said tanks.
TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING SIGNATURES: FOR VESSEL IS THIS TANK ACCEPTANCE BASED SOLELY ON SUBMITT FYES; ISSUE N.O.A.D. AND INFORM YOUR TANK SAFE As a undersigned certifies that those tank(s) indicated or sorted on the reverse side of the SGS F-7 and that the a undersigned hereby grants permission for SGS person	FOR TERMINAL INSPECTOR TED INFORMATION EVALUATION? YES NO PERVISOR AND/OR CLIENT(S) IMMEDIATELY. ATMOSPHERE STATEMENT In line 13 of this page have been cleaned and gas freed as tank(s) in question are in all respects safe for entry. Sonnel to enter said tanks.
TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING SIGNATURES: FOR VESSEL IS THIS TANK ACCEPTANCE BASED SOLELY ON SUBMITT FYES; ISSUE N.O.A.D. AND INFORM YOUR TANK SAFE As undersigned certifies that those tank(s) indicated or corted on the reverse side of the SGS F-7 and that the coundersigned hereby grants permission for SGS personal tank Safe Atmosphere Statement signed	FOR TERMINAL INSPECTOR TED INFORMATION EVALUATION? YES NO PERVISOR AND/OR CLIENT(S) IMMEDIATELY. ATMOSPHERE STATEMENT In line 13 of this page have been cleaned and gas freed as tank(s) in question are in all respects safe for entry. Sonnel to enter said tanks.

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and contact your supervisor for further instructions.

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F-14	Page 18 of 18
PORT / TERMINAL: Lake Charles, LA / CITGO	OFFICE: Lake Charles, LA TEL: 337-625-1455
VESSEL: CCL 7 VOY #:	INSPECTOR(S): JOE BUSBY
DATE: 4/9/2009	SGS FILE: 137178
CARGO: SPENT CAUSTIC	CLIENT: CES ENVIROMENTAL REF: TBD
CARGO	QUANTITY OPTION
	Oil Gas & Chemicals Services Division.
✓ AT LOADING ☐ AT TRANSFER ☐ AT DISCHARGE	☐ RESIDUAL ☐ CLEAN PRODUCTS ☑ CHEMICALS/GASES
ABOVE VESSEL WILL 📝 LOAD 🗌 DISCHARGE	AT THIS TERMINAL AT (SPECIFY):
AS PER 🔲 CHARTER PARTY 🗔 AMENDED C/P 🗹 PRI	INCIPAL'S INSTRUCTIONS OTHER (SPECIFY)
FOLLOWING QUANTITY(S) OF SPENT CAUSTIC	
() LT M	T POUNDS OTHER (SPECIFY) 9-6 DRAFT
OR: () BBLS M	3 ☑ OTHER AT STD. TEMP OBSERV. TEMP
THIS QUANTITY(S) IS SPECIFIED AS:	OR MINUS OTHER (SPECIFY) LTD
*PLUS OR MINUS %" IS THE OPTION OF	VESSEL TERMINAL CLIENT
*PLUS OR MINUS %" IS OPTED FOR BY	VESSEL TERMINAL CLIENT
VESSEL'S CO-MINGLING ACCEPTABLE TO OUR PRINCIPAL	L YES NO
CARGO REQUIRES SEGREGATION SE	EPARATION
	EPARATION VOLUMETRIC BLENDING DATE: TIME:
SIGNATURES) VESSEL'S STAFF :	DATE: TIME:
SIGNATURES) VESSEL'S STAFF : TERMINAL REPRESENTATIVE : INSPECTOR : JOE BUSBY	DATE: TIME: DATE: TIME: DATE: 4/9/2009 TIME: 16:15
SIGNATURES) VESSEL'S STAFF: TERMINAL REPRESENTATIVE: INSPECTOR: JOE BUSBY ARE STOP GAUGES: - TAKEN BY I	DATE: TIME: DATE: TIME: DATE: 4/9/2009 TIME: 16:15 INSPECTOR YES NO
(SIGNATURES) VESSEL'S STAFF: TERMINAL REPRESENTATIVE: INSPECTOR: JOE BUSBY ARE STOP GAUGES: - TAKEN BY I	DATE: TIME: DATE: TIME: DATE: 4/9/2009 TIME: 16:15 INSPECTOR
SIGNATURES) VESSEL'S STAFF: TERMINAL REPRESENTATIVE: INSPECTOR: JOE BUSBY ARE STOP GAUGES: - TAKEN BY T - WITNESSEE	DATE: TIME: DATE: TIME: DATE: 4/9/2009 TIME: 16:15 INSPECTOR YES NO
SIGNATURES) VESSEL'S STAFF: TERMINAL REPRESENTATIVE: INSPECTOR: JOE BUSBY ARE STOP GAUGES: - TAKEN BY I - WITNESSEE	DATE: TIME: DATE: TIME: DATE: 4/9/2009 TIME: 16:15 INSPECTOR
SIGNATURES) VESSEL'S STAFF: TERMINAL REPRESENTATIVE: INSPECTOR: JOE BUSBY ARE STOP GAUGES: - TAKEN BY I - WITNESSEE	DATE: TIME: DATE: TIME: DATE: 4/9/2009 TIME: 16:15 INSPECTOR YES NO TERMINAL / VESSEL YES NO D BY INSPECTOR YES NO
SIGNATURES) VESSEL'S STAFF: TERMINAL REPRESENTATIVE: INSPECTOR: JOE BUSBY ARE STOP GAUGES: - TAKEN BY I - WITNESSEE	DATE: TIME: DATE: TIME: DATE: 4/9/2009 TIME: 16:15 INSPECTOR
SIGNATURES) VESSEL'S STAFF: TERMINAL REPRESENTATIVE: INSPECTOR: JOE BUSBY ARE STOP GAUGES: - TAKEN BY I - WITNESSEE	DATE: TIME: DATE: TIME: DATE: 4/9/2009 TIME: 16:15 INSPECTOR YES NO FERMINAL / VESSEL YES NO D BY INSPECTOR YES NO
SIGNATURES) VESSEL'S STAFF: TERMINAL REPRESENTATIVE: INSPECTOR: JOE BUSBY ARE STOP GAUGES: - TAKEN BY I - WITNESSEE	DATE: TIME: DATE: TIME: DATE: 4/9/2009 TIME: 16:15 INSPECTOR YES NO TERMINAL / VESSEL YES NO D BY INSPECTOR YES NO
SIGNATURES) VESSEL'S STAFF: TERMINAL REPRESENTATIVE: INSPECTOR: JOE BUSBY ARE STOP GAUGES: - TAKEN BY I - WITNESSEE	DATE: TIME: DATE: TIME: DATE: 4/9/2009 TIME: 16:15 INSPECTOR YES NO TERMINAL / VESSEL Y YES NO D BY INSPECTOR YES NO
SIGNATURES) VESSEL'S STAFF: TERMINAL REPRESENTATIVE: INSPECTOR: JOE BUSBY ARE STOP GAUGES: - TAKEN BY I - WITNESSEE	DATE: TIME: DATE: TIME: DATE: 4/9/2009 TIME: 16:15 INSPECTOR YES NO TERMINAL / VESSEL YES NO D BY INSPECTOR YES NO
SIGNATURES) VESSEL'S STAFF: TERMINAL REPRESENTATIVE: INSPECTOR: JOE BUSBY ARE STOP GAUGES: - TAKEN BY T - WITNESSEE	DATE: TIME: DATE: TIME: DATE: 4/9/2009 TIME: 16:15 INSPECTOR YES NO TERMINAL / VESSEL YES NO D BY INSPECTOR YES NO
SIGNATURES) VESSEL'S STAFF: TERMINAL REPRESENTATIVE: INSPECTOR: JOE BUSBY ARE STOP GAUGES: - TAKEN BY I - WITNESSEE	DATE: TIME: DATE: TIME: DATE: 4/9/2009 TIME: 16:15 INSPECTOR YES NO TERMINAL / VESSEL Y YES NO D BY INSPECTOR YES NO
SIGNATURES) VESSEL'S STAFF: TERMINAL REPRESENTATIVE: INSPECTOR: JOE BUSBY ARE STOP GAUGES: - TAKEN BY I - TAKEN BY T - WITNESSEL REMARKS: LOAD TO 9-6 DRAFT NOTE: (1) WE CALCULATE AND CHECK ON STOP GAUGE MEASURE	DATE: TIME: DATE: TIME: DATE: 4/9/2009 TIME: 16:15 INSPECTOR YES NO TERMINAL / VESSEL YES NO D BY INSPECTOR YES NO
(SIGNATURES) VESSEL'S STAFF: TERMINAL REPRESENTATIVE: INSPECTOR: JOE BUSBY ARE STOP GAUGES: - TAKEN BY I - WITNESSEL REMARKS: LOAD TO 9-6 DRAFT NOTE: (1) WE CALCULATE AND CHECK ON STOP GAUGE MEASURE TERMINAL EMPLOYEES ARE SOLELY RESPONSIBLE FOR OBSOF THE DESIGNATED TANKS. (2) OUR STAFF IS AVAILABLE TO ADVISE IN BLENDING OPER	DATE: TIME: DATE: 4/9/2009 TIME: 16:15 INSPECTOR YES NO TERMINAL / VESSEL YES NO D BY INSPECTOR YES NO D BY INSPECTOR YES NO EMENTS WHEN REQUIRED BY OUR CLIENTS; HOWEVER, VESSEL AND SERVATION OF STOP GAUGES, VALVE SETTING AND PUMPING INTO AND OUT PRATIONS. VOLUMETRIC OR WEIGHT COMPOSITES CAN BE PREPARED FROM VER, DUE TO THE INHERENT DIFFICULTY IN ACHIEVING A HOMOGENEOUS



Inspection Report (LOADING)

Subject: CCL 26

Date:

2/21/2009

Our ref.: 131481

Product: SPENT CAUSTIC

Location: Lake Charles, La / Citgo

Client ref.:

CES ENVIRONMENTAL SERVICES

Summary of Figures	Bbis @ 60°F	Gallons @ 60°F	Long Tons	Metric Tonnes	Pounds
Shore Measurements (Phenolic)					
Total Shore figures delivered GSV Average API Gravity @ 60°F	4,641.20	194,930.40			
Shoretanks no(s): ST 185, ST 185					
Shore Measurements (Sulfidic)					
Total Shore figures delivered GSV Average API Gravity @ 60°F	2,536.49	106,532.58			
Shoretanks no(s): ST 185, ST 185					
Vessel's Measurements (Phenolic)					
Vessel's figures before loading (OBQ) Free Water	0.00				
Vessel's figures before loading (OBQ) Liquid	0.00				
Vessel's figures before loading (OBQ) Non Liquid	0.00				
Vessel's figures before loading (OBQ) Total	0.00	0.00			
Vessel's figures TCV on board after loading	4,655.31	195,523.02			
Vessel's figures TCV loaded	4,655.31	195,523.02			
Vessel's figures Free Water loaded	0.00	0.00			
Vessel's figures GSV loaded	4,655.31	195,523.02			
Vessel's Measurements (Sulfidic)	26[1C, 2C], CCL :	26[3C]			
Vessel's figures before loading (OBQ) Free Water	0.00				
Vessel's figures before loading (OBQ) Liquid	0.00				
Vessel's figures before loading (OBQ) Non Liquid	0.00				
Vessel's figures before loading (OBQ) Total	0.00	0.00			
Vessel's figures TCV on board after loading	2,569.11	107,902.62			
Vessel's figures TCV loaded	2,569.11	107,902.62			
3 # 44 #5 ##5 \$4.4.4.4.3					

Cargo stowage Cargo tanks no(s):

Vessel's figures Free Water loaded

Vessel's figures GSV loaded

CCL 26[1C, 2C], CCL 26[3C]

0.00

2,569.11

0.00

107,902.62

Samples - Shore Tank 2x1 quarts running Barges - 1x1 quart running

Quality - None Requested

SGS North America Inc.

Oil, Gas & Chemicals Services

4701 E. NAPOLEON SULPHUR, LA 70663 t((337) 625-1455) f((337) 625-1721) www.sgs.com

Member of the SGS Group (Société Générale de Surveillance)



Time Log

2030	VESSEL ARRIVED
2045	VESSEL DOCKED
2055	INSPECTOR NOTIFIED
2145	INSPECTOR ARRIVED
2230	OPEN ST 182
2240	OPENED ST 185
2250	COMMENCED PRE LOAD DECK INSPECTION
2300	COMPLETED PRE LOAD DECK INSPECTION
2345	CARGO HOSE CONNECTED
0045	COMMENCED LOADING FROM ST 185
1330	COMPLETED LOADING FROM ST 185
1345	COMMENCED LOADING FROM ST 182
1930	COMPLETED LOADING
1930	INSPECTOR NOTIFIED
1945	CARGO HOSE DISCONNECTED
2000	INSPECTOR ARRIVED
2010	CLOSED ST 182
2020	CLOSED ST 185
2030	COMENCED POST LOAD DECK INSPECTION
2100	COMPLETED POST LOAD DECK INSPECTION
2105	COMMENCED CALCULATIONS
2115	DOCUMENTS PLACED ON VESSEL
2120	INSPECTOR DEPARTED
	2045 2055 2145 2230 2240 2250 2300 2345 0045 1330 1345 1930 1945 2000 2010 2020 2030 2100 2105 2115

for SGS Oil, Gas & Chemicals Services 2/23/2009

Shore volume calculated in accordance with:

Vessel volume calculated in accordance with:

Procedures as per applicable MPMS Chapter 3.1a, 7, 8.1 or 8.2, 12.1 or 12.2, 17.1, 17.2, 17.4.

Disclaimer

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Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. FIRCC REV. January 2007

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F-4			Page 4 of 1
PORT / TERMINAL: Lake Char	les, La / Citgo	OFFICE: LAKE CHARLES, LA	TEL: (337) 625-1455
VESSEL: CCL 26	VOY#:	INSPECTOR(S): JOE BUSBY	
DATE: 2/20/2009		SGS FILE: 131481	
CARGO: Spent Caustic (Pher	olic and Sulfidic)	CLIENT: CITGO	REF:

TIME LOG

U	<u> </u>		Oil Gas & Chemicals Services Division.
Š	AT LOAD	ING AT TRANSFER	AT DISCHARGE
		AR 2009 / MONTH JAN FEB MAR APR MAY JUN	JUL AUG SEP QCT NOV DE
Date	Hour		
2/20	20:30	VESSEL ARRIVED	
/20	20:45	VESSEL DOCKED	
/20	20:55	INSPECTOR NOTIFIED	
/20	21:45	INSPECTOR ARRIVED	
2/20	22:30	OPEN ST 182	
/20	22:40	OPENED ST 185	
/20	22:50	COMMENCED PRE LOAD DECK INSPECTION	
/20	23:00	COMPLETED PRE LOAD DECK INSPECTION	
/20	23:45	CARGO HOSE CONNECTED	
/21	00:45	COMMENCED LOADING FROM ST 185	
/21	13:30	COMPLETED LOADING FROM ST 185	
/21	13:45	COMMENCED LOADING FROM ST 182	
/21	19:30	COMPLETED LOADING	
/21	19:30	INSPECTOR NOTIFIED	
/21	19:45	CARGO HOSE DISCONNECTED	
/21	20:00	INSPECTOR ARRIVED	
/21	20:10	CLOSED ST 182	
/21	20:20	CLOSED ST 185	
/21	20:30	COMENCED POST LOAD DECK INSPECTION	
/21	21:00	COMPLETED POST LOAD DECK INSPECTION	
/21	21:05	COMMENCED CALCULATIONS	
/21	21:15	DOCUMENTS PLACED ON VESSEL	
/21	21:20	INSPECTOR DEPARTED	
DE	LAYS AND S	TOPPAGES:	
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F-3A				Page	of S
PORT / TERMINAL: Lake Charles	, La / Citgo		OFFICE: LAKE CHARLES, LA	TEL: (337) 62	25-1455
VESSEL: CCL 26	VOY #:		INSPECTOR(S): JOE BUSBY		
DATE: 2/20/2009			SGS FILE: 131481		
CARGO: PHENOLIC CAUSTIC			CLIENT: CITGO	REF:	
SGS	V	OYAGE AN	IALYSIS REPORT OILG	as & Chemicals Sen	vices Division.
☑ LOADING ☐ V-V1	TRANSFER	DISCHARGE	SUMMARY	Type of Voyage Simple	C/P DATE
Load Port/Terminal/Berth	ARRIVED	SAILED	Discharge Port/Terminal/Berth	ARRIVED	SAILED
LAKE CHARLES/CITGO	2/20/2009	2/22/2009			
VOLUME UNITS	SUPPLIER	RECEIVER	VCF SHORE LOAD VCF SHORE DIS	CH VCF VESSEL LOAD	VCF VESSEL DISCH
🗹 BBLS 🗌 GALS 🔲 M³ 🔲 L	CITGO				

Load Port/Terminal/Berth LAKE CHARLES/CITGO	SUMMARY		DISCHARGE	TRANSFER	G 🗌 V-V 1	Z LOADIN
LAKE CHARLES/CITGO 2/20/2009 2/22/2009 VOLUME UNITS SUPPLIER RECEIVER VCF SHORE LOAD VCF VESSEL LOAD VCF VESSEL ✓ BBLS ☐ GALS ☐ M³ ☐ L CITGO CITGO VCF SHORE LOAD VCF SHORE DISCH VCF VESSEL LOAD VCF VESSEL DESCRIPTION API/DENSITY TCV FW GSV S&W NSV Reference 1. COMPARISON OF SHORE QUANTITIES IN CUSTODY TRANSFER BILLIO CUSTODY (3) (2) (3) (2) (2) (2) (2) (2) (3) (2) (3) (2) (3) (2) (3) (2) (3) (3) (2) (3) (3) (2) (3) (4) (3) (4) (3) (4) (3) (4) (5) (4) (6) (4) (4) (4) (Simple harge Port/Terminal/Berth ABRIVED		T SAN ED	ARRIVED	al/Rorth	and Port/Termin
VOLUME UNITS SUPPLIER RECEIVER VCF SHORE LOAD VCF VESSEL LOAD VCF VESSEL LOAD VCF VESSEL LOAD VCF VESSEL LOAD VCF VESSEL LOAD VCF VESSEL LOAD VCF VESSEL LOAD VCF VESSEL LOAD VCF VESSEL LOAD VCF VESSEL LOAD VCF VESSEL LOAD VCF VESSEL LOAD VCF VESSEL LOAD VCF VESSEL LOAD VCF VESSEL LOAD VCF VESSEL LOAD VCF VESSEL LOAD VCF VESSEL LOAD NCF VESSEL	Attive Determine	Manage Political Detail Although Spices				
SBLS GALS M³ L CITGO	SHORE LOAD VCF SHORE DISCHIVCF VESSEL LC	F SHORE LOAD VCF SHORE DISCHIVCF VESSEL LOAD VCF VESSEL DISC	 		7011GO	· · · · · · · · · · · · · · · · · · ·
DESCRIPTION API/DENSITY TCV FW GSV S&W NSV Reference					s Ma Ti	
1. COMPARISON OF SHORE QUANTITIES IN CUSTODY TRANSFER (1) (1) (2) (2) (3) (2) (3) (2) (1) (2) (3) (2) (3) (2) (1) (2) (3) (2) (3) (2) (3) (2) (1) (3) (1) (2) (3) (2) (3) (2) (3) (2) (3) (1) (1	GSV S&W NSV	GSV S&W NSV Reference	FW	1		
Bill of Lading 1. 4641.20 (1) (2) (2) (3)=(2)-(1) (3)=(2)-(1) (3)=(2)-(1) (4)=(3)/(1) (4)=(3)/(1) (4)=(3)/(1) (4)=(3)/(1) (4)=(3)/(1) (4)=(3)/(1) (4)=(3)/(1) (4)=(3)/(1) (4)=(3)/(1) (4)=(3)/(1) (4)=(3)/(1) (4)=(3)/(1) (4)=(3)/(1) (4)=(3)/(1) (4)=(3)/(1) (4)=(3)/(1) (5)=(3)/(1) (5)=(3)/(1) (5)=(3)/(1) (6)=(3)/			ODY TRANSFER	ANTITIES IN CUST		
Diff. 3. -4641.20 (3)=(2)-(1)		(1)				
Diff. % 4100.00%		(2)		0.00		Outturn 2.
Recalc. B/L 5. (a) Recalculate if B/L and O/T use different tables. (5) (a) Vol		(3)=(2) - (1)		-4641.20		oiff. 3.
II. VESSEL/SHORE QUANTITIES AT ((4) = (3) / (1) x 100		-100.00%)iff. % 4.
Vessel Sailing A. 4655.31	nd O/T use different tables.	and O/T use different tables. (5) (a) Vol. Diff.	Recalculate if		(a)	lecalc. B/L 5.
OBQ (Ail) B. 0.00 IB) Loaded C. 4655.31 (C)=(A) - (B) Difference D. 14.11 (D)=(C)-[(1) or Difference % E. 0.30% (E)=(D)((1) or(S) Load Vessel Ratio F. 1.0030 (F)=(C)/[(1) or(S) Load VEF G. (G) Theoretical Shore H. (H)=(C)/(G) Theoretical Shore Diff. i. -4641.20 (D=(H)-(1) or			PORT(S)	AT()LOAD	RE QUANTITIES A	I. VESSEL/SHO
Loaded C. 4655.31 (C)=(A) - (B) Difference D. 14.11 (D)=(C)-[(1) or Difference % E. 0.30% (E)=(D)/(1) or Difference % E.	LIQUID NON-LIQUID			. 4655.31	ing A.	essel Sail
Difference D. 14.11 (D)=(C)-[(1) or				. 0.00	A(All) B.	ОВО
Difference % E. 0.30% (E)=(D)/((1)or(5)		(C)=(A) - (B)		. 4655.31	ded C.	Load
Load Vessel Ratio F. 1.0030 (F)=(C)/((1)or(5) Load VEF G. (G) Theoretical Shore H. (H)=(C) / (G) Theoretical Shore Diff. I4641.20 (I)=(H)-((1) or		(D)=(C)-[(1) or (5)]		. 14.11	erence D.	Diffe
Load VEF G. (G) Theoretical Shore H. (H)=(C) / (G) Theoretical Shore Diff. I4641.20 (I)=(H) - ((1) or		(E)=(D)/[(1)or(5)]x100		0.30%	erence % E.	Diffe
Theoretical Shore H. (H)=(C) / (G) Theoretical Shore Diff. I4641.20 (I)=(H) - {(1) or		(F)=(C)/((1)or(5))		1.0030	F.	oad Vessel Ratio
Theoretical Shore Diff. i4641.20 (I)=(H) - ((1) or		(G)		•	G.	oad VEF
					Н.	heoretical Shore
Theoretical Shore Diff. % J100.00% (J)=(IV(1) or (s		(I)=(H) - [(1) or (5)]		1		
		(J)=(I)/{(1) or (5)}x100		-100.00%	Diff. % j.	heoretical Shore
II. VESSEL/SHORE QUANTITIES AT () DISCHARGE PORT(S)			ARGE PORT(S)			
Vessel Arrival K. LIQUID NON-LIQUID K	LIQUID NON-LIQUID					
ROB (All) L.						
Discharged M. (M) = (K) - (L)						
Difference N. (N) = (2) - (M)						
5,110,1100 /0 0.		$(O) = (N) / (2) \times 100$				
Discharge Vessel Ratio P. (P) = (M) / (2)						
Discharge VEF Q. (Q)						-
Theoretical Shore R. (R) = (M) / (Q)				ſ		
Theoretical Shore Diff. S. 0.00 (S) = (2) · (R)				0.00	Diff. S.	heoretical Shore
Theoretical Shore Diff. % T. 0.00 (T) = (S) / (2) x		$(T) = (S) / (2) \times 100$		0.00	Diff. % T.	heoretical Shore
III. VESSEL/'S COMPARISON OF LOADING AND DISCHARGE PORT(S) VCF TABLE MUST BE CONSISTENT	CF TABLE MUST BE CONSISTENT		CHARGE PORT(S)		·	
ransit Difference U. (U) = (K) - (A)						
5	LIQUID NON-LIQUID					· · · · · · · · · · · · · · · · · · ·
DBQ/ROB Difference W. W) = (L) - (B)		1 1 1 1 1			erence W.	BQ/ROB Diffe
TCV Difference (3) - OBQ (B) + ROB (L) [S&W(1)/GSV(1)]X100 [S&W(2)/GSV(2				• • •		DJ TCV DIFF :
Comments:						omments :
		· ·				
Prepared by: JOE BUSBY Title: INSPECTOR Company: SGS Date Completed: 2/21/20		<u>, , , , , , , , , , , , , , , , , , , </u>				

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		Page	SERVE of	
١	TEL:	(337) 62	5-1455	
		* <u>************************************</u>		
	,			

PORT / TERMINAL: Lake Charles, La / Citgo	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 26 VOY #:	INSPECTOR(S): JOE BUSBY
DATE: 2/20/2009	SGS FILE: 131481
CARGO: SULFIDIC CAUSTIC	CLIENT: CITGO REF:

VOVACE ANALYSIS REPORT

<u> </u>			OTAGE AN	ALIOIO REF	Oil Gas	& Chemicals Se	rvices Division.
☑ LOADING □	V-V 7	TRANSFER [DISCHARGE	SUMMARY		Type of Voyage Simple	e C/P DATE
Load Port/Terminal/Berth		ARRIVED	SAILED	Discharge Port/T	erminal/Berth	ARRIVED	SAILED
LAKE CHARLES/CITGO		2/20/2009	2/22/2009				
VOLUME UNITS		SUPPLIER	RECEIVER	VCF SHORE LOAD	VCF SHORE DISCH	VCF VESSEL LOA	OVCF VESSEL DISC
🗌 BBLS 🔲 GALS 🗌 M³ 🛭	JL	CITGO					
DESCRIPTION API/DENS	ΙΤΥ	TCV	FW	GSV	S&W	NSV	Reference
I. COMPARISON OF SHORE	QUA	NTITIES IN CUST	ODY TRANSFER				
Bill of Lading 1.		2536.49					(1)
Outturn 2.							(2)
Diff. 3.							(3)=(2) - (1)
Diff. % 4.							(4) = (3) / (1) x 100
Recalc. B/L 5.	(a)		Recalculate if	B/L and O/T use d	ifferent tables.		(5) (a) Vol. Diff.
II. VESSEL/SHORE QUANTIT	IES /		PORT(S)				
Vessel Salling	A.	2569.11			LIQUID	NON-LIQUID	(A)
OBQ (All)	₿.	0.00					(8)
Loaded	C.	2569.11					(C)=(A) - (B)
Difference	D.	32.62					(D)=(C)-[(1) or (5)]
Difference %	E.	1.29%					(E)=(D)/[(1)or(5)]x100
oad Vessel Ratio	F.	1.0129					(F)=(C)/[(1)or(5)]
oad VEF	G.						(G)
Theoretical Shore	H.		1				(H)=(C) / (G)
Theoretical Shore Diff.	1.	-2536.49					(I)=(H) - [(1) or (5)]
Theoretical Shore Diff. %	J.	-100.00%					(J)=(I)/[(1) or (5)]x100
II. VESSEL/SHORE QUANTIT	IES A	AT () DISCH	ARGE PORT(S)				•
essel Arrival	K.				LIQUID	NON-LIQUID	(K)
ROB (AII)	L.						L)
Discharged	M.						(M) = (K) - (L)
Difference	N.						(N) = (2) - (M)
Difference %	Ο.						(O) = (N) / (2) x 190
Discharge Vessel Ratio	P.						(P) = (M) / (2)
Discharge VEF	Q.						(Q)
heoretical Shore	R.						(R) = (M)/(Q)
heoretical Shore Diff.	S.						(S) = (2) - (A)
Theoretical Shore Diff. %	T.	######################################					(T) = (S) / (2) x 100
III. VESSEL/'S COMPARISON	OF L	OADING AND DIS	CHARGE PORT(S) VCF TABLE MI	UST BE CONSIST	ENT	
ransit Difference	Ų.		,				(U) = (K) - (A)
Difference %	V.				LIQUID	NON-LIQUID	(V) = (U) / (A) x 100
BQ/ROB Difference	W.						(W) = (L) - (B)
ADJ TCV DIFF : (4		TCV Difference (3) - tity) / 0.00	OBQ (B) + ROB (L)	[S S&W at Load Port	&W(1)/GSV(1)]X100	[S S&W at Disch Po	s&W(2)/GSV(2)]X100 rt :
Comments :							
Prepared by: JOE BUSBY	, T	Title: INS	SPECTOR	Company :	SGS	Date Completed :	2/21/2009
repared by: JUE BUSDI			-: EU (UI)	Cambas	.,	ublished Consest To	

F-1					Pag	e joi
PORT / TERMINAL: Lake Charles, L	La / Citg	0	OFFICE LA	KE CHARLES, LA	TEL (337)	625-1455
VESSEL CCL 26	VOY#		INSPECTOR(S): JOE BUSBY		
DATE 2/20/2009	······································			31481		
CARGO PHENOLIC CAUSTIC	······································		CLIENT CIT	······································	REF	
SGS		SHORE QUA	NTITY SUMM		ias & Chemicals Se	
AT LOADING AT TRANS	SFER []	AT DISCHARGE	✓ SHORE	TANK (STATIC)	METE	R (DYNAMIC)
CUSTODY TRANSFER SAMPLE						
☐ API @ 60°F:		R.D. 60ºF/60ºF		Densit	y Lbs/Gal @	
S&W % VOL:						
SOURCE OF ANALYTICAL DATA:						
	UNITS	ST 185	TANK/METER	TANK/METER	TANK/METER	TANK/METER
TOTAL CALCULATED VOLUME	BBLS	4641.20				
FREE WATER	BBLS	0.00				
GROSS STANDARD VOLUME	BBLS	4641.20				
S & W VOLUME	BBLS					
(NET) STANDARD VOLUME	BBLS					
WCF TABLE (I)		**************************************				
GROSS STANDARD WEIGHT						
S & W WEIGHT						
(NET) STANDARD WEIGHT						
	<u> </u>			L	<u> </u>	
	UNITS	TANK/METER	TANK/METER	SHORELINE	TOTAL DE	LIVERED
TOTAL CALCULATED VOLUME	BBLS				464	1.20
FREE WATER	BBLS	······································			0.0	00
GROSS STANDARD VOLUME	BBLS					1.20
S & W VOLUME	BBLS		* · · · · · · · · · · · · · · · · · · ·		707	
(NET) STANDARD VOLUME	BBLS					
(ITE I) STAIRDAND VOLUME	0019					
	 				GSV NSV	SV @
GROSS STANDARD WEIGHT						
S & W WEIGHT						
(NET) STANDARD WEIGHT						
	*			<u></u>		
STOWAGE O/B VESSEL:					- ******	
	···			B/L DATE:	······································	
REMARKS QUANTITY CONFIRM	IED	QUANTITY		YES NO	IF YES STATE F	
with of						
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Nate Time	- 					

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F-1					Pag	e Z of
PORT / TERMINAL: Lake Charles,	La / Citg	0	OFFICE LA	KE CHARLES, LA	TEL (337)	625-1455
VESSEL CCL 26	VOY#): JOE BUSBY		
DATE 2/20/2009	**************************************		SGS FILE 1	31481		
CARGO SULFIDIC CAUSTIC			CLIENT CIT	GO GO	REF	
SGS		SHORE QUA	NTITY SUMI	MARY Oil C	ias & Chemicals Se	rvices Division.
AT LOADING AT TRANS	SFER	AT DISCHARGE	✓ SHORE	TANK (STATIC)	METE	R (DYNAMIC)
CUSTODY TRANSFER SAMPLE						
API @ 60ºF :	<u>.</u>	R.D. 60°F/60°F		Densi	ty Lbs/Gal @	
S&W % VOL:						
SOURCE OF ANALYTICAL DATA:						
	UNITS	ST 185	TANK/METER	TANK/METER	TANK/METER	TANK/METER
TOTAL CALCULATED VOLUME	BBLS	2536.49				
FREE WATER	BBLS	0.00				
GROSS STANDARD VOLUME	BBLS	2536.49				
S & W VOLUME	BBLS			<u> </u>		
(NET) STANDARD VOLUME	BBLS		***************************************			
WCF TABLE (1)						
GROSS STANDARD WEIGHT						
S & W WEIGHT	<u> </u>					
(NET) STANDARD WEIGHT	1					
						*
	<u></u>			<u> </u>		
	UNITS	TANK/METER	TANK/METER	SHORELINE	TOTAL DE	INFRED
TOTAL CALCULATED VOLUME		77347034121211	TANTONICIEN	OHOHELINE		
	BBLS				2536	
FREE WATER	BBLS				0.0	00
GROSS STANDARD VOLUME	BBLS				2536	6.49
& W VOLUME	BBLS					
NET) STANDARD VOLUME	BBLS		· · · · · · · · · · · · · · · · · · ·			
	 		·		✓ GSV NSV	SV @
GROSS STANDARD WEIGHT					E 404 1494	
S & W WEIGHT	 		·····			
NET) STANDARD WEIGHT						
·····/ VICINATIO TENGIT						
STOWAGE O/B VESSEL:						
		······································		B/L DATE:		
REMARKS QUANTITY CONFIRM	ED	QUANTITY	CHANGES -	YES NO	IF YES STATE R	EASON
with of						

Time

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PORT / TERMINAL: Lake Charle	4,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				CHARLES, LA	TEL: (337) (625-1455
VESSEL: CCL 26	VOY #:		 		JOE BUSBY		
DATE: 2/20/2009 CARGO: PHENOLIC CAUSTIC	`		 	FILE: 131- NT: CITGO		REF:	
CCC		COPI AII				F The F b	
<u> </u>	VI	ESSEL QUA	MIII	YSUMI	VIARY OILG	as & Chemicals Se	
AT LOADING ATTR	ANSFER AT	DISCHARGE		CRUDE OI	IL	✓ PROD	UCTS
API @ 60°F :		I.D. 60°F/60°F			☐ Densit	y Lbs/Gal @	
S&W % VOL:							
SOURCE OF ANALYTICAL DATA	A:						
·							
)LUME		WCF		WEIGHT	
	BBLS	U.S. GALS	·	,	POUNDS	LONG TONS	METRIC TONS AIR/VAC
VESSEL'S QUANTITIES	V.E.F. CO	RRECTED :		YES 🗆	NO	VEF:	
TOTAL CALCULATED VOL	4655.31	195523.02	2	- 3			
REE WATER	0.00	0.00					
GROSS STANDARD VOLUME	4655.31	195523.02	2 +				
S & W VOLUME							
NET) STANDARD VOLUME			\dashv				
		-L					<u> </u>
✓ OBQ	**************************************		ROB				

IQUID MATERIAL	0.00	0.00					
ION-LIQUID MATERIAL	0.00	0.00					
FREE WATER	0.00	0.00					
TOTAL	0.00	0,00	\dashv				
							<u> </u>
LOADED QUANTIT	ies		DISCHI	RGED QUA	NTITIES		
CONDED GOARTS		·		- COLO GOA			
TOTAL CALCULATED VOL.	4655.31	195523.02					
REE WATER	0.00	0.00			······································	 	
GROSS STANDARD VOLUME	4655.31	195523.02					
& W VOLUME	+UJU,U !	130020.02					
		<u> </u>				<u> </u>	
NET) STANDARD VOLUME		<u> </u>				<u> </u>	
				NO		SLOPS ON BOARD	
ARE SLOPS INCLUDED IN CALC	CULATIONS	YES	لبدا	NO	L. NO	SEOFS ON BOARD	
ARE SLOPS INCLUDED IN CALC STOWAGE O/B VESSEL:	CULATIONS	YES		NO	J NO	SEOFS ON BOARD	
	CULATIONS	YES	أبرأ	NO	I. NO	SECTS ON BOARD	

F-2		······································			Pag	e Zof Z
PORT / TERMINAL: Lake Charl	les, La / Citgo		OFFICE: LAKE			525-1455
VESSEL: CCL 26	INSPECTOR(S):					
DATE: 2/20/2009		<u> </u>	SGS FILE: 131		End for the	
CARGO: SULFIDIC CAUSTIC		· · · · · · · · · · · · · · · · · · ·	CLIENT: CITGO		REF:	
SGS	VE	ESSEL QUA	ANTITY SUMI	MARY OII	Gas & Chemicals Se	rvices Division.
AT LOADING AT THE	RANSFER AT	DISCHARGE	CRUDE O	IL .	✓ PROC	UCTS
☐ API @ 60°F:	R	.D. 60ºF/60ºF		Dens	eity Lbs/Gal @	
S&W % VOL:						
SOURCE OF ANALYTICAL DAT	Ά:					
	l vo	LUME	T was	1	WEIGHT	
	BBLS	U.S. GALS	s (t WCF)	POUNDS	LONG TONS	METRIC TONS
VESSEL'S QUANTITIES	V.E.F. CO	RRECTED:	YES [NO	VEF:	AIR/VAC
TOTAL CALCULATED VOL	2569.11	107902.6				
FREE WATER	0.00	0.00				
GROSS STANDARD VOLUME	2569.11	107902.6	2			
S & W VOLUME						
(NET) STANDARD VOLUME						
V OBQ			ROB			
LIQUID MATERIAL	0.00	0.00				-
NON-LIQUID MATERIAL	0.00	0.00				1
FREE WATER	0.00	0.00				2
TOTAL	0.00	0.00				†
						3
LOADED QUANTIT	ΠES		DISCHARGED QUA	NTITIES		3
						3
TOTAL CALCULATED VOL	2569.11	107902.62	2			3
FREE WATER	0.00	0.00				3
GROSS STANDARD VOLUME	2569.11	107902.62	2] 3
S & W VOLUME						3
(NET) STANDARD VOLUME	**************************************					3
ARE SLOPS INCLUDED IN CAL	CULATIONS	YES	i no	O N	O SLOPS ON BOAR) 3
STOWAGE O/B VESSEL:						3
						4
REMARKS:	·			······································		

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F-10								Page I of I
PORT / TERMINAL: Lake Charles, La / Citgo				OFFICE LAKE CHARLES, LA TEL (337) 625-1455				
VESSEL CCL 26	3		VOY#		INSPECTOR(S):	JOE BUSBY	SGS FILE 131481	
CARGO SULFID	IC CAUSTIC				CLIENT CITGO)	REF	
266		f Marine L			SUREMENT			
<u>uuu</u>			AT LOADING		TRANSFER	AT DISCHARGE	Oil Gas & Chemicals S	ervices Division.
SHORETANK #		REF HEI				FT-IN I FT I	MM OTHER:	
		TIME: 22:20		E: 2/21/2009 TII			OPEN	CLOSE
OBS. REF. HEIGHT		*WATER INNAGE			#WATER INNAGE	INSPECTOR:	JOE BUSBY	JOE BUSBY
20-0-3/4	18-9-1/4	0-0-0	12-1-7/8	10-10-7/8	0-0-0	WITNESS:		
				·		API @ 60ºF		
						SOURCE		
						AMBIENT AIR TEMP	45.0	50.0
						TEMP OF TANK SHELL	65	66
						AVG TEMP (0.5°F)	68.0	69.0
MEASUREMEN	TS TAKEN IN ACC	ORDANCE WITH	:	INNAGE: API MPM	IS 3.1A.9.2	AVG INNAGE	18-9-1/4	10-10-7/8
FREE WATER D	ETERMINED IN A	CCORDANCE WITH	:	API MPMS 3.1A.10).1	AVG WATER INNAGE	0-0-0	0-0-0
* TEMPERATURE	S TAKEN IN ACC	ORDANCE WITH	:	API MPMS 7.6.4		VOLUME UNITS BBI	S M3 OTHER	:
VOLUME CALC	ULATED IN ACCO	RDANCE WITH	:			TABLE VOLUME **	6011.29	3474.92
PROD TEMP	68.2 x	0.875 = 59.6750	PROD TEMP	68.8 x 0,	.875 = 60.2000	FREE WATER	0.00	0.00
(+) AIR TEMP	45.0 x (0.125 ≈ 5.6250	(+) AIR TEMP	50.0 x 0.	125 = 6.2500	OBSERVED VOLUME	6011.29	3474.92
TANK SHELLTEM	PERATURE:	± 65	TANK SHELL TE	MPERATURE	= 66	TANK SHELL CORR.	1.00000	1.00000
ROOF CORRECT	ION INFO - STANI	DARD API:				OBSERVED VOLUME	6011.29	3474.92
CRITICAL ZONE	RANGE FROM	то	ROOF	EG 🔲 HIGH	Low	ROOF CORRECTION	0.00	0.00
		OF	EN	CLI	OSE	GROSS OBSERVED VOL.	6011.29	3474.92
AVG INNULL IN	CRITICAL ZONE	YES	V NO	YES	✓ NO	^VCF TABLE : (t)	1,00000	1.00000
SIDEGAUGE/ATG		18-1-1/	4 18-9	10-2-12	10-10-10	GROSS STANDARD VOL.	6011.29	3474.92
TEMPERATURES	°F	# Y PROBE	MERCURY	# Y PROBE	MERCURY	DIFFERENCE	253	6.37
* ACTION TAKE	٧:		68.2 🗌 L	□U Y M	68.8 🗍 L	CUSTODY TRANSFER SAM	PLE:	
	Ow Ow			API @ 60ºF/ DE				
		OTHER*		OTHER*		S & W % VOL.		
SIDETEMP/REMO	OTE					S & W VOLUME		
PROBE WAS CH	ECKED PRIOR TO	USE YES	NO 🗌	NOT USED	<u></u>	NET STANDARD VOLUME		
SAMPLING		Du Da	ı Dı		1 DL	WCF TABLE : (t)		
* ACTION TAKE	٧:		3 Z R	Пт Пв	pomer.	GROSS STANDARD WT.		
	447.7	OTHER*		OTHER*		NET STANDARD WEIGHT		
AT ULLAGES :						WEIGHT UNITS LT	□MT □LBS□	OTHER:

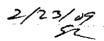
OP TEMP :

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CAL DATE :

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** IS TABLE VOLUME IN BBLS M3 OTHER:



Ref TSh Temp: 60

F-10								Page 2 of 2
PORT / TERMINAL	Lake Charles,	La	/ Citgo		OFFICE LAKE	CHARLES, LA	TEL (337) 625-1455	5
VESSEL CCL 26			VOY#		INSPECTOR(S):	JOE BUSBY	SGS FILE 131481	
CARGO PHENOI	LIC CAUSTIC				CLIENT CITGO		REF	
CCC			SHOR	E TANK MEA	SUREMENT	S (STATIC)		
<u> </u>		7	AT LOADING	☐ AT	TRANSFER	AT DISCHARGE	Oil Gas & Chemicals S	Services Division.
SHORETANK #	185	REF HE	GHT:	G	AUGE UNITS	Ø FT-IN □ FT □	MM OTHER:	
		IME: 22:30		TE: 2/21/2009 TI	ME: 20:30		OPEN	CLOSE
OBS. REF. HEIGHT	§ INNAGE	#WATER INNAGE	OBS. REF. HEIGHT	§ INNAGE	×WATER INNAGE	INSPECTOR:	JOE BUSBY	JOE BUSBY
36-8-1/2	22-0-1/2	0-0-0	36-8-1/2	7-7-1/2	0-0-0	WITNESS:		
						API @ 60°F		
						SOURCE		
						AMBIENT AIR TEMP	45.0	50.0
						TEMP OF TANK SHELL	6	6
						AVG TEMP (0.5°F)		
§ MEASUREMENT	S TAKEN IN ACC	ORDANCE WITH	:	INNAGE: API MPN	IS 3.1A.9.2	AVG INNAGE	22-0-1/2	7-7-1/2
# FREE WATER DETERMINED IN ACCORDANCE WITH : API N		API MPMS 3.1A.10).1	AVG WATER INNAGE	0-0-0	0-0-0		
# TEMPERATURES	S TAKEN IN ACC	ORDANCE WITH	•	API MPMS 17.2.5.	3	VOLUME UNITS BB	LS M3 OTHER	
^ VOLUME CALCU	JLATED IN ACCO	RDANCE WITH	:			TABLE VOLUME **	7076.89	2435.69
PROD TEMP	хQ).875 =	PROD TEMP	x 0.	.875 =	FREE WATER	0.00	0.00
(+) AIR TEMP	45.0 x 0	0.125 = 5.6250	(+) AIR TEMP	50.0 x 0	.125 = 6.2500	OBSERVED VOLUME	7076.89	2435.69
TANK SHELLTEMP	PERATURE:	= 6	TANK SHELL TE	MPERATURE	= 6	TANK SHELL CORR.	1.00000	1.00000
ROOF CORRECTION	ON INFO - STAND	DARD API:				OBSERVED VOLUME	7076.89	2435.69
CRITICAL ZONE R	ANGE FROM	ТО	ROOF	LEG 🔲 HIGH	Low	ROOF CORRECTION	0.00	0.00
		OF	'EN	CL	OSE	GROSS OBSERVED VOL.	7076.89	2435.69
AVG INN/ULL IN C	RITICAL ZONE	YES	₩ NO	YES	V NO	^VCF TABLE : (t)	1.00000	1.00000
SIDEGAUGE/ATG		22-0-1/2	22-0-1/2	7-7-1/2	7-7-1/2	GROSS STANDARD VOL.	7076.89	2435.69
TEMPERATURES	₆ E	# PROBE	MERCURY	# PROBE	MERCURY	DIFFERENCE	464	11.20
ACTION TAKEN				□u □ m		CUSTODY TRANSFER SAN	IPLE:	
		□м		□м		API @ 60°F/ DE		
		OTHER*		OTHER*		S & W % VOL.		
SIDETEMP/REMO	TE					S & W VOLUME		
PROBE WAS CHE	CKED PRIOR TO	USE YES	NO [NOT USED		NET STANDARD VOLUME		
SAMPLING			1 D.		n OL	WCF TABLE : (t)		
* ACTION TAKEN	:	□т □в	I DR	От Ов	B □ R	GROSS STANDARD WT.		
		OTHER*		OTHER*		NET STANDARD WEIGHT		

OP TEMP:

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LBS OTHER:

OTHER:

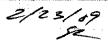
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WEIGHT UNITS

** IS TABLE VOLUME IN



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PORT / TERMINAL: Lake Charles, La / Citgo								OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455						17150130
							INSPECTOR(S): JOE BUSBY SGS FILE: 131481							
DATE:		009 CARGO:	PHENOLIC C	CAUSTIC		- Land		CLIENT: CITE			REF:			
00	10	***************************************			SSF	L MEASUF				CLOSE / R	ESTRICTED			
- 2 (G E					RRIVAL		EPARTURE				R Chemicals Se	ervices Division.	
	Y AT LO	DADING	AT TRANS	HIPMENT		AT DISCHAR	GE	✓ CARG	O TANKS	BALLA	ST TANKS	NO NO	NOTHER CARGO	0
UNITS :	¥	FT-IN	□ FT		MM		OTHER:	l (INITS : 🗹	BBLS	U.S. GALS	M3	OTHER:	
TANK #	1	OBSERVED	¤ INNAGE	WATER	TE	APERATURES °F	AVG.	CORRECTED	TOTAL	FREE	GROSS	^ V.C.F.	GROSS	T
	HEIGHT	REFERENCE HEIGHT		INN	§	PROBE	TEMP	MEASURE	OBSERVED VOLUME	WATER	OBSERVED VOLUME	(t)	STANDARD VOLUME	
1C	16-2-1/2	16-2-1/2	9-2-7/8	0-0-0		61.2	61.2	9-2-7/8	2240.68	0.00	2240.68	1.00000	2240.68	Α
2C	16-2-1/2	16-2-1/2	8-9-1/8	0-0-0		61.7	61.7	8-9-1/8	2414.63	0.00	2414.63	1.00000	2414.63	Α
														T
PROBE	WAS CHECKE	D PRIOR TO USE	✓ YE	s 🗌 N	0	NOT USE	D	TOTALS	4655.31	0.00	4655.31		4655.31	1
GAUGE	LOCATION	: V STAND	PIPE	G.H. on	Expa	nsion Trunk		CORRECTI	ED MEASURE	: w = Wedge	corrected, t = '	Trim corrected		
·		OTHER	l :					API@ 60F/DE	NSITY @ 15C		S	OURCE :		
* GAU	GE POSITIO	N: C = Center	of tank F = Fo	rward of Ce	nter /	A = Aft of Cente	r	S & W - VOL %	:	**************************************	S	OURCE :		
SAMPLES DRAWN: 1 QT RUNNING PER TANK						S&W-VOL:			WCF TA	BLE : (t	}			
						NET STANDAR	D VOLUME							
BALLA	ST TANKS P	ERMANENT	YES I	F NO	SEE	F-15 BALLAST	TANKS)	GROSS STANE	OARD WEIGHT					
SEASU	CTION SEA	L#S:						NET STANDAR	D WEIGHT					
DRAFT	: FWD (P) 8-1	AFT (P)	9-6		LIST :	º (P) / (S)	TOTAL CALC.	VOL. ARRIVA	L / DEPARTU	₹E		4655.31	***************************************
		S) 8-1		9-6				REMARKS:						
SEA	CONDITIO	N: calm in por	t					^ VOLUME CALCI	JLATED IN ACC	ORDANCE WIT	1			
JOE BUSBY						× LIQUID LEVEL GAUGES IN ACCORDANCE WITH API MPMS 17 2.5.2								

INSPECTOR

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2/23/09

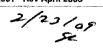
VESSEL'S STAFF

API MPMS 17.2.5.3

STEMPERATURE DETERMINATION IN ACCORDANCE WITH

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F-15														
PORT / TERMINAL: Lake Charles, La / Citgo								OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455						
VESSEL	_: CCL 26			VOY	#:			INSPECTOR(S): JOE BUSBY SGS FILE: 131481						
DATE:	DATE: 2/20/2009 CARGO: SULFIDIC CAUSTIC CLIENT: CITGO REF:													
CI	3 C			VES	SEL	. MEASUR	EMENT	SYSTEM	OPEN	CLOSE / F	ESTRICTED			
<u> </u>			····		AF	RRIVAL	<u> </u>	EPARTURE			Oil Gas &	Chemicals Se	rvices Division.	
		DADING	AT TRANS	HIPMENT		AT DISCHARO	3E		GO TANKS	BALL/	IST TANKS	NO NO	NOTHER CARG	<u> </u>
UNITS:		FT-IN	□ FT		ММ		OTHER:		UNITS: 🗹	BBLS	U.S. GALS	M ₃	OTHER:	
TANK #	HEIGHT	OBSERVED X REFERENCE HEIGHT		WATER INN	TEM §	PERATURES °F PROBE	AVG. TEMP	CORRECTED MEASURE	TOTAL OBSERVED VOLUME	FREE WATER	GROSS OBSERVED VOLUME	^ V.C.F.	GROSS STANDARD VOLUME	
3C	16-2-3/4	16-2-3/4	10-5-0	0		61.0	61.0	10-5	2569.11	0.00	2569.11	1.00000	2569.11	
										<u> </u>				
					<u> </u>									
					<u> </u>									
												·		
PROBE	WAS CHECKE	D PRIOR TO USE	YE	s 🗀 N	0	NOT USE	D	TOTALS	2569.11	0.00	2569.11		2569.11	
GAUGE	LOCATION	: STANDE	PIPE	G.H. on	Expan	sion Trunk	·····	CORRECT	TED MEASURE	: w = Wedge	corrected, t = T	rim corrected	**************************************	
		OTHER	:					API @ 60F / DI	ENSITY @ 15C		sc	URCE :		
* GAU	GE POSITIO	N: C = Center o	ftank F = Fo	rward of Ce	nter A	= Aft of Center	r	S&W-VOL	% :		SC	URCE :		
SAMPL	ES DRAWN	:			······································	·		S&W-VOL:			WCF TAE	BLE : (t)	
***************************************				***************************************				NET STANDA	RD VOLUME			***************************************		$\neg \neg$
BALLA	ST TANKS P	ERMANENT	YES II	F NO	SEE F	-15 BALLAST 1	TANKS)	GROSS STAN	IDARD WEIGH	T				
SEASU	ICTION SEA	L #'S :				······································	**************************************	NET STANDA	RD WEIGHT					
DRAFT	: FWD(P)	AFT (P)			LIST:	º (P) / (S)	TOTAL CALC	. VOL. ARRIVA	L / DEPARTU	RE	· · · · · · · · · · · · · · · · · · ·	2569.11	
	(S)	(S)				· · · · · · · · · · · · · · · · · · ·	REMARKS:	· · · · · · · · · · · · · · · · · · ·		·			
SE	A CONDITIO	N:			****		*************************************	^ VOLUME CALC	CULATED IN ACC	ORDANCE WIT	н		- Comment of the comm	
			T	1,,,,		***		¤ LIQUID LEVEL	GAUGES IN ACC	ORDANCE WIT	н	API MPMS 1	7.2.5.2	
	VES	SEL'S STAFF				INSPECTOR		STEMPERATURE	EDETERMINATIO	ON IN ACCORDA	NCE WITH	API MPMS 1		
Copyrigh	t SGS-OG&C 2	1001 - Rev April 20	05					**************************************		Services rer	idered according to	published Gene	ral Terms and Cor	nditions



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F-16												Page	e to of	
PORT / TERMINAL: Lake Charles, La / Citgo						OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455								
VESSEL	:CCL 26			**************************************	VOY #:			INSPECTOR(3): JOE BUSBY	1	SGS FILE	: 131481		
DATE:	2/20/200	09 CARGO: 5	Spe	nt Caustic				CLIENT: CI	rgo		REF:			
SGS OBQ F						SUREMENT IS NOT TAKEN		Oil Gas 8	Chemicals Servic	es Division,				
UNITS :	∀ F	T-IN		FT	MM		THER:		UNITS: BBLS U.S. GALS M ³ OTHER:					
TANK #	REFERENCE HEIGHT	OBSERVED REFERENC E HEIGHT	*	OBSERVED INNAGE	FREE WATER INNAGE	NON-LIQUID INNAGE	AVG. TEMP	CORRECTED MEASURE	TOTAL OBSERVED VOLUME	^ V.C.F.	FREE WATER VOLUME	NON-LIQUID VOLUME	LIQUID VOLUME	
1C	VISUAL	VISUAL	Α	0-0-0	0-0-0	0-0-0	60	0-0-0	0.00		0.00	0.00	0,00	
2C	VISUAL	VISUAL	Α	0-0-0	0-0-0	0-0-0	60	0-0-0	0.00		0.00	0.00	0.00	
3C	VISUAL	VISUAL	Α	0-0-0	0-0-0	0-0-0	60	0-0-0	0.00		0.00	0.00	0.00	
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			T							 				
^ VC	LUME CALCUL	ATED IN ACCO	RDAI	NCE WITH				TOTALS	0.00		0.00	0,00	0.00	
On t	ehalf of our clie	nt(s) we would l	ike t	o bring to your at	tention that in o	our opinion :		d = dip, u =	Ullage; corrected	measure,	w = Wedge c	orrected, t = Trim	corrected	
		Bbls of L	IQL	JID MATERIA	AL			GAUGE LOC	re 🗹 : NOITA	ANDPIPE	☐ G. H	l. on Expansion tru	ınk	
	Bbls of NON-LIQUID MATERIAL				OTHER:									
remains on board your vessel. To the extent we are aware of contractual relationships, this material belongs to our client(s) and should be pumped ashore. In case you are unable to do so please indicate your reasons below.				* GAUGE P	OSITION: C = Cer			f Center A = Aft o	f Center					
				OBQ SAM	PLED	YES 🗸	NO IF NO	REASON	·····					
In a	ny event, we hav	e to advise our	clien	t(s) of the above.		right to seek				Ta	······································			
State	ements with reg		ty an	nt. Id similiar adviso	ry services exp	ress personal		OBQ TES	TED 📋	YES 🗸	NO IF NO	REASON	·	
opin	ions without res	sponsibility for S	GS.				· · · · · · · · · · · · · · · · · · ·	1	area III	YES 🗸	N		**************************************	
								ROB SAM	PLED	150 A	NO IF NO	HEASON	···	

DRAFT:

JOE BUSBY

INSPECTOR

FWD (P) 2-0

(S) 2-0

SEA CONDITION: CALM IN PORT

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VESSEL'S STAFF

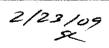
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LIST :

⁹ (P) / (S)

AFT (P) 2-6

(S) 2-6





To: JENNY RUST SGS REF NO: 138341

CES ENVIRONMENTAL REF#

SUMMARY OF FINDINGS

OPERATION

DISCHARGE FROM THE CCL 26 TO SHORE TANK 222 AT KMTEX, PORT ARTHUR, TX ON 4/18/2009 OF A CARGO DESCRIBED AS **SULFIDIC CAUSTIC**

QUANTITY

		DELIVERED (1)	RECEIVED (2)	DIFFERENCE	PERCENT
TOV	BARRELS	2,418.42	2,415.21	3.21	0.13
	U.S. GALLONS	101,573.64	101,439.00	134.64	0.13

- Delivered quantity based on barge figures
 Received quantity based on shore tank 222
 Arrival: 2,418.42 TOV
 ROB: 0.00 TOV BBLS

TIME LOG

4	
15:40	INSPECTOR NOTIFIED
15:45	BARGE ARRIVED
16:00	BARGE DOCKED
16:40	ARRIVED AT KMTEX
17:00	COMMENCED PRIOR DISHCARGE INSPECTION CCL 26
17:00	CARGO HOSE CONNECTED
17:10	COMPLETED PRIOR DISCHARGE INSPECTION CCL 26
17:40	GAUGED S/TK 222 OPEN
17:50	COMMENCED CALCULATIONS
18:00	COMPLETED CALCULATIONS
18:00	COMMENCED DISCHARGE
18:10	INSPECTOR DEPARTED
00:00	INSPECTOR NOTIFIED
00:35	ARRIVED AT KMTEX
01:20	COMPLETED DISCHARGE
01:25	COMMENCED FINAL INSPECTION
01:30	COMPLETED FINAL INSPECTION
01:45	GAUGED S/TK 222 CLOSE
01:50	CARGO HOSE DISCONNECTED
01:55	COMMENCED CALCULATIONS
02:05	COMPLETED CALCULATIONS
02:10	BARGE RELEASED
02:20	INSPECTOR DEPARTED
	15:40 15:45 16:00 16:40 17:00 17:10 17:10 17:40 17:50 18:00 18:10 00:00 00:35 01:20 01:25 01:30 01:45 01:50 01:55 02:05

Darren W. Le Blanc Date: 4/20/2009

SGS North America Inc. Oil, Gas & Chemicals Services t(727-1035) www.sgs.com Member of the SGS Group (Société Générale de Surveillance)



Shore volume calculated in accordance with: **TOV**Vessel volume calculated in accordance with: **TOV**Definition of Terms as per MPMS Chapter 1.
Procedures as per applicable MPMS Chapter 3.1a, 7, 8.1 or 8.2, 12.1 or 12.2, 17.1, 17.2, 17.4.

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Inspection Report (LOADING)

Subject: CCL 7

Date:

8/20/2008

Our ref.: 111526

Client ref.: TBD

Product: SPENT CAUSTIC

Location: Lake Charles, La / Citgo

Client: CES ENVIRONMENTAL SERVICES

Summary of Figures		Bbls @ 60°F	Gallons @ 60°F	Long Tons	Metric Tonnes	Pounds
Shore Measurements						
Total Shore figures delivered Average API Gravity @ 60°F	GSV NSV	7,992.58	335,688.36			
Shoretanks no(s): TANH	K182, TANK182					
Vessel's Measurements						
Vessel's figures before loading (OBC	2) Free Water					
Vessel's figures before loading (OBC	Q) Liquid	0.00				
Vessel's figures before loading (OBC	2) Non Liquid	0.00				
Vessel's figures before loading (OBC	D) Total	0.00	0.00			
Vessel's figures TCV on board after	loading	8,150.14	342,305.88			
Vessel's figures TCV loaded	-	8,150.14	342,305.88			
Vessel's figures Free Water loaded						
Vessel's figures GSV loaded						

Cargo stowage Cargo tanks no(s):

CCL 7[1C, 2C, 3C]

Samples

SHORE TANK - 2X1 QUART RUNNING

BARGE - 2X1 QUART RUNNING PER CARGO TANK

Time Log

8/18/2008	2300	INSPECTOR NOTIFIED
	2335	VESSEL ARRIVED
8/19/2008	0015	VESSEL DOCKED
	0045	SHORE TANK 182 GAUGED, TEMPERATURED and SAMPLED OPEN
	0100	COMMENCED PRE LOAD DECK INSPECTION
	0105	COMPLETED PRE LOAD DECK INSPECTION
	0145	1X6 CARGO CHICKSAN CONNECTED
	0320	COMMENCED LOADING
	0330	INSPECTOR DEPARTED
	1900	INSPECTOR NOTIFIED
	2000	INSPECTOR ARRIVED
	2010	LOADING SUSPENDED
	2100	SHORE TANKS GAUGED and TEMPERATURED CLOSED
8/20/2008	0700	INSPECTOR NOTIFIED
	0750	INSPECTOR ARRIVED
	0810	SHORE TANK 182 GAUGED, TEMPERATURED and SAMPLED OPEN
	1210	RESUMED LOADING

SGS North America Inc.

Oil, Gas & Chemicals Services 4701 E. NAPOLEON SULPHUR, LA 70663 t((337) 625-1455) f((337) 625-1721) www.sgs.com

Member of the SGS Group (Société Générale de Surveillance)



1600	INSPECTOR NOTIFIED
1630	INSPECTOR ARRIVED
1640	COMMENCED POSTLOAD DECK INSPECTION
1705	FINISHED LOADING
1710	COMPLETED POSTLOAD DECK INSPECTION
1710	COMMENCED FINAL CALCULATIONS
1825	6" HOSE OFF
1940	COMPLETED FINAL CALCULATIONS
2035	INSPECTOR DEPARTED

Brett Daigle for SGS OII, Gas & Chemicals Services 8/21/2008

Shore volume calculated in accordance with: Vessel volume calculated in accordance with: ASTM D 1250-04 ASTM D 1250-04

Procedures as per applicable MPMS Chapter 3.1a, 7, 8.1 or 8.2, 12.1 or 12.2, 17.1, 17.2, 17.4.

) iscialme

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FIRCC REV. January 2007

PORT / TERMINAL: Lake Charles, La /	Citgo	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 7 VOY	/ #:	INSPECTOR(S): JOE BUSBY
DATE: 8/18/2008		SGS FILE: 111526
CARGO: Spent Caustic		CLIENT: CES ENVIROMENTAL REF: TBD

SGS

VOYAGE ANALYSIS REPORT

Nil Gae & Chamicale Sanvicee Division

<u> </u>			Oil Gas & Chemicals Services D				
✓ LOADING V	V TRANSFER	DISCHARGE	SUMMAR	v	Type of Voya	ge C/P DATE	
E COADING III	THE LES	DIOGNIFATOL	OVIIII/GI	•	Simple		
Load Port/Terminal/Berth	ARRIVED	SAILED	Discharge Port	/Terminal/Berth	ARRIVED	SAILED	
LAKE CHARLES / CITGO	8/18/2008	8/20/2008					
VOLUME UNITS	SUPPLIER	RECEIVER	VCF SHORE LOA	D VCF SHORE DISC	VCF VESSEL LO	AD VCF VESSEL DISCI	
☐ BBLS ☐ GALS ☐ M³ ☐	L CITGO	CES					
DESCRIPTION API/DENSIT	Y TCV	FW	GSV	Saw	NSV	Reference	
I. COMPARISON OF SHORE Q	UANTITIES IN CUST	ODY TRANSFER					
Bill of Lading 1.	7992.58	0.00	7992.58	0.00		(1)	
Outturn 2.						(2)	
Diff. 3.						(3)=(2) - (1)	
Diff. % 4.						(4) = (3) / (1) x 100	
Recalc. B/L 5. (a)	Recalculate I	f B/L and O/T use	different tables.		(5) (a) Voi. Diff.	
II. VESSEL/SHORE QUANTITIE	SAT()LOAD	PORT(S)					
Vessel Sailing	A. 8150.14	0.00	8150.14	LIQUID	NON-LIQUID	N N	
OBQ (All)	B. 0.00	0.00	0.00	0.00	0.00	(5)	
Loaded	C. 8150.14	0.00	8150.14			(C)=(A) · (B)	
Difference	D. 157.56	0.00	157.56			(D)=(C)-[(1) or (5)]	
Difference %	E. 1.97%		1.97%			(E)=(D)[(1)or(5)]x100	
Load Vessel Ratio	F. 1.0197					(F)=(C)/[(1)or(5)]	
Load VEF	G. 1.00000		1114 4.41			(G)	
Theoretical Shore	н. 8150.14					(H)=(C) / (G)	
Theoretical Shore Diff.	1. 157.56					(I)=(H) - [(1) or (5)]	
Theoretical Shore Diff. %	J. 1.97%					(J)=(I)/[(1) or (5)]x100	
II. VESSEL/SHORE QUANTITIES	SAT () DISCH	ARGE PORT(S)					
/essel Arrival I	K			LIQUID	NON-LIQUID	(K)	
ROB (All)	L.					L)	
Discharged N	и.					(M) = (K) · (L)	
Difference !	v.					(N) = (2) - (M)	
Difference %	o.					(O) = (N) / (2) x 100	
Discharge Vessel Ratio I	P.					(P) = (M) / (2)	
Discharge VEF (2.					(Q)	
heoretical Shore F	R					(R) = (M) / (Q)	
heoretical Shore Diff.	s.					(S) = (2) · (R)	
heoretical Shore Diff. %	г.					(T) = (S) / (2) x 100	
II. VESSEL/'S COMPARISON OF	LOADING AND DISC	CHARGE PORT(S	VCF TABLE A	NUST BE CONSIS	TENT		
ransit Difference L						(U) = (K) - (A)	
Difference % V	<i>r</i> .			LIQUID	NON-LIQUID	(V) = (U) / (A) x 100	
BQ/ROB Difference W	<i>i</i> .					W) = (L) - (B)	
	TCV Difference (3) - (080 (B) + 808 (L)		S&W(1)/GSV(1))X100		S&W(2)/GSV(2)]X100	
DJ TCV DIFF : (Qua	antity) / 0.00	55 4 (5) · · · (55 (2)	S&W at Load Por		S&W at Disch Po		
omments :							
							
repared by: MIKE ELLIOTT	Title: IMS	PECTOR	Company :	SGS	Date Completed :		
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F-1					ş	age 1 of
PORT / TERMINAL: Lake Charles,	La / Citgo		OFFICE LA	KE CHARLES, L	A TEL (337) 625-1455
VESSEL CCL 7	VOY#		INSPECTOR(S): JOE BUSBY		
DATE 8/18/2008			SGS FILE	111526		
CARGO Spent Caustic			CLIENT CE	S ENVIROMENT	AL REF TBD	
SGS		SHORE QUA	NTITY SUM		Gas & Chemicals	Services Division.
✓ AT LOADING ☐ AT TRANS	SFER 🗌	AT DISCHARGE	✓ SHOR	E TANK (STATIC)	ME	TER (DYNAMIC)
CUSTODY TRANSFER SAMPLE						
☐ API @ 60°F:		R.D. 60ºF/60ºF	· · · · · · · · · · · · · · · · · · ·	Dens	ity Lbs/Gal @	
S&W % VOL:						
SOURCE OF ANALYTICAL DATA:						
	UNITS	TANK182	TANK182			
TOTAL CALCULATED VOLUME	BBLS	5596.38	2396.20			
REE WATER	BBLS	0.00	0.00			
GROSS STANDARD VOLUME	BBLS	5596.38	2396.20			
& W VOLUME	BBLS					
NET) STANDARD VOLUME	BBLS					
VCF TABLE (1)					<u> </u>	
ROSS STANDARD WEIGHT						
& W WEIGHT						
NET) STANDARD WEIGHT						
· · · · · · · · · · · · · · · · · · ·					<u></u>	···
	UNITS		······	SHORELINE	TOTAL D	ELIVERED
OTAL CALCULATED VOLUME	BBLS				79	92.58
REE WATER	BBLS					0.00
ROSS STANDARD VOLUME	BBLS		· · · · · · · · · · · · · · · · · · ·		79	92.58
& W VOLUME	BBLS					
NET) STANDARD VOLUME	BBLS					
					GSV NSV	SV @
ROSS STANDARD WEIGHT						
& W WEIGHT						
IET) STANDARD WEIGHT						
					·	
TOWAGE O/B VESSEL:	***************************************					
			T	B/L DATE:		
EMARKS QUANTITY CONFIRME	D	QUANTITY CI	HANGES	YES NO	IF YES STATE	REASON
with of						
with of						
Date Time						Terms and Condition

PORT / TERMINAL: Lake Charles, VESSEL: CCL 7 DATE: 8/18/2008 CARGO: Spent Caustic SGS AT LOADING AT TRANS API @ 60°F: S&W % VOL: SOURCE OF ANALYTICAL DATA: VESSEL'S QUANTITIES TOTAL CALCULATED VOL FREE WATER GROSS STANDARD VOLUME S & W VOLUME (NET) STANDARD VOLUME OBQ LIQUID MATERIAL NON-LIQUID MATERIAL FREE WATER OTAL COLUMN TITLES VOY#: VANSFER A	OLUME U.S.GALS/LITE ORRECTED: 342305.88 0.00 342305.88	INSP SGS CLIE NTI	FILE: 111 NT: CES E TY SUM! CRUDE O	Environmental MARY Oil C	REF: TBD ias & Chemicals Se PROD WEIGHT LONG TONS VEF:	ervices Division.	
DATE: 8/18/2008 CARGO: Spent Caustic SGS AT LOADING AT TRAN API @ 60°F: S&W % VOL: SOURCE OF ANALYTICAL DATA: VESSEL'S QUANTITIES TOTAL CALCULATED VOL FREE WATER GROSS STANDARD VOLUME S & W VOLUME NET) STANDARD VOLUME OBQ LIQUID MATERIAL NON-LIQUID MATERIAL REE WATER	V.E.F. CO 8150.14 0.00 8150.14	OLUME U.S.GALS/LITE ORRECTED: 342305.88	RES	FILE: 111 INT: CESE TY SUM! CRUDE OF	526 Environmental MARY Oil C	PROD y Lbs/Gal @ WEIGHT LONG TONS	DUCTS METRIC TONS
AT LOADING AT TRANS API @ 60°F: S&W % VOL: SOURCE OF ANALYTICAL DATA: VESSEL'S QUANTITIES TOTAL CALCULATED VOL FREE WATER GROSS STANDARD VOLUME S & W VOLUME NET) STANDARD VOLUME OBQ LIQUID MATERIAL NON-LIQUID MATERIAL FREE WATER TOTAL	V.E.F. CO 8150.14 0.00 8150.14	OLUME U.S.GALS/LITE ORRECTED: 342305.88	RES	TY SUM! CRUDE OF	MARY Oil C	PROD y Lbs/Gal @ WEIGHT LONG TONS	DUCTS METRIC TONS
API @ 50°F: S&W % VOL: SOURCE OF ANALYTICAL DATA: VESSEL'S QUANTITIES TOTAL CALCULATED VOL FREE WATER GROSS STANDARD VOLUME S & W VOLUME NET) STANDARD VOLUME LIQUID MATERIAL NON-LIQUID MATERIAL FREE WATER TOTAL	V.E.F. CO 8150.14 0.00 8150.14	OLUME U.S.GALS/LITE ORRECTED: 342305.88	RES	CRUDE OF	MARY Oil C	PROD y Lbs/Gal @ WEIGHT LONG TONS	DUCTS METRIC TONS
API @ 60°F: S&W % VOL: SOURCE OF ANALYTICAL DATA: VESSEL'S QUANTITIES TOTAL CALCULATED VOL FREE WATER GROSS STANDARD VOLUME S & W VOLUME NET) STANDARD VOLUME OBQ LIQUID MATERIAL REE WATER TOTAL	V.E.F. CO 8150.14 0.00 8150.14	OLUME U.S.GALS/LITE ORRECTED: 342305.88	RES	WCF	Densit	y Lbs/Gal @ WEIGHT LONG TONS	DUCTS METRIC TONS
API @ 60°F: S&W % VOL: SOURCE OF ANALYTICAL DATA: VESSEL'S QUANTITIES TOTAL CALCULATED VOL FREE WATER GROSS STANDARD VOLUME S & W VOLUME NET) STANDARD VOLUME OBQ LIQUID MATERIAL REE WATER OTAL	V.E.F. CC 8150.14 0.00 8150.14	OLUME U.S.GALS/LITE ORRECTED: 342305.88 0.00 342305.88	RES	WCF (t)	Densit	y Lbs/Gal @ WEIGHT LONG TONS	METRIC TONS
S&W % VOL: SOURCE OF ANALYTICAL DATA: VESSEL'S QUANTITIES FOTAL CALCULATED VOL FREE WATER GROSS STANDARD VOLUME S & W VOLUME NET) STANDARD VOLUME OBQ IQUID MATERIAL ON-LIQUID MATERIAL REE WATER OTAL	V.E.F. CO 8150.14 0.00 8150.14	OLUME U.S.GALS/LITI ORRECTED: 342305.88 0.00 342305.88	3 B	YES	POUNDS/KG	WEIGHT LONG TONS	
SOURCE OF ANALYTICAL DATA: VESSEL'S QUANTITIES TOTAL CALCULATED VOL FREE WATER GROSS STANDARD VOLUME S & W VOLUME NET) STANDARD VOLUME OBQ IQUID MATERIAL ION-LIQUID MATERIAL REE WATER OTAL	8150.14 0.00 8150.14	U.S.GALS/LITE ORRECTED: 342305.88 0.00 342305.88	3 B	YES	<u> </u>	LONG TONS	
VESSEL'S QUANTITIES FOTAL CALCULATED VOL FREE WATER GROSS STANDARD VOLUME S & W VOLUME NET) STANDARD VOLUME OBQ LIQUID MATERIAL FREE WATER OTAL	8150.14 0.00 8150.14	U.S.GALS/LITE ORRECTED: 342305.88 0.00 342305.88	3 B	YES	<u> </u>	LONG TONS	
FREE WATER GROSS STANDARD VOLUME S & W VOLUME NET) STANDARD VOLUME OBQ IQUID MATERIAL ION-LIQUID MATERIAL REE WATER OTAL	8150.14 0.00 8150.14	U.S.GALS/LITE ORRECTED: 342305.88 0.00 342305.88	3 B	YES	<u> </u>	LONG TONS	
FREE WATER GROSS STANDARD VOLUME S & W VOLUME NET) STANDARD VOLUME OBQ LIQUID MATERIAL FREE WATER OTAL	V.E.F. CO 8150.14 0.00 8150.14	ORRECTED: 342305.88 0.00 342305.88	3 B	YES	<u> </u>		
FREE WATER GROSS STANDARD VOLUME S & W VOLUME NET) STANDARD VOLUME OBQ LIQUID MATERIAL FREE WATER OTAL	8150.14 0.00 8150.14	342305.88 0.00 342305.88	3		NO	VEF:	AGYAC
GROSS STANDARD VOLUME S & W VOLUME NET) STANDARD VOLUME OBQ LIQUID MATERIAL FREE WATER OTAL	0.00	0.00					
GROSS STANDARD VOLUME S & W VOLUME NET) STANDARD VOLUME OBQ LIQUID MATERIAL REE WATER OTAL	0.00	342305.88					
OBQ IQUID MATERIAL ON-LIQUID MATERIAL REE WATER	0.00						
OBQ LIQUID MATERIAL NON-LIQUID MATERIAL REE WATER			ROB				
OBQ LIQUID MATERIAL NON-LIQUID MATERIAL REE WATER			ROB				
OBQ LIQUID MATERIAL NON-LIQUID MATERIAL REE WATER			ROB				
NON-LIQUID MATERIAL FREE WATER FOTAL		0.00					
TREE WATER	0.00						
OTAL		0.00					
		0.00					
✓ LOADED QUANTITIES	0.00	0.00					
✓ LOADED QUANTITIES							
			DISCHA	ARGED QUAI	NTITIES		
OTAL CALCULATED VOL	8150.14	342305.88					
REE WATER							
ROSS STANDARD VOLUME							
& W VOLUME		<u> </u>					
IET) STANDARD VOLUME							
RE SLOPS INCLUDED IN CALCULA	ATIONS	YES		NO	NO S	SLOPS ON BOARD	
TOWAGE O/B VESSEL:							
					·		
EMARKS:							
pyright SGS-OG&C 1995 - Rev Oct 2003				Services	s rendered according	to published General T	Terms and Conditions

PORT / TERMINAL: Lake	Charles, La / Citgo	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455	
VESSEL: CCL 7	VOY #:	INSPECTOR(S): JOE BUSBY	
DATE: 8/18/2008		SGS FILE: 111526	
CARGO: Spent Caustic		CLIENT: CES Environmental REF: TBD	

SGS

TIME LOG

Oil Gas & Chemicals Services Division.

	AT LO	ADING					AT TRA	NSFER				. —	☐ AT	DISCHA	ARGE	
	,	YEAR	2008	/ MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC
Date	Hour	T			- Lawrence			1,			. Andrew . Angress					
3/18	23:00	IN:	SPECT	OR NOTIF	IED										***************************************	
8/18	23:35	VE	SSEL	ARRIVED											············	·
3/19	00:15	VE	SSEL (OOCKED												
8/19	00:45	SH	ORE T	ANK 182 (SAUGED	TEMP	FRATU	RED an	d SAMF	LED O	PEN					
3/19	01:00	CC	MMEN	CED PRE	LOAD DI	ECK INS	PECT	ON								***************************************
3/19	01:05	CC	MPLET	ED PRE L	OAD DE	CK INS	PECTIO	N								
3/19	01:45	1X	6 CAR	O CHICK	SAN CO	NECT	D			 						
3/19	03:20	CC	MMEN	CED LOAI	DING											
3/19	03:30	INS	SPECTO	OR DEPAR	RTED						_					
3/19	19:00	INS	PECTO	OR NOTIF	ED											
3/19	20:00	INS	PECTO	OR ARRIV	ED											
3/19	20:10	LO	ADING	SUSPEN	DED											
3/19	21:00	SH	ORE T	ANKS GAL	JGED and	d TEMP	ERATU	RED C	OSED							
/20	07:00	INS	PECTO	OR NOTIFI	ED											
/20	07:50	i		OR ARRIV												
/20	08:10	<u>. </u>		NK 182 G		TEMPE	RATU	RED and	SAMP	LED O	PEN					
/20	12:10	<u></u>		LOADING												
/20	16:00			OR NOTIFI												
/20	16:30			R ARRIVI												
/20	16:40			CED POST		ECK INS	SPECT	ION	······						··-	·
/20	17:05			LOADING												
/20	17:10	<u> </u>		ED POSTI				ON								
/20	17:10			ED FINAL	CALCU	LATION	s									
/20	18:25		IOSE C		 											
/20	19:40			ED FINAL		ATIONS	}	-								
/20	20:35	INS	PECIC	R DEPAR	TED					· · · · · · · · · · · · · · · · · · ·						
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IES M	ARKED * A	ARE SUBI	MITTED	TO US.		······································						7	TME LO	G PAGE	1 0	Fi
	SGS-OG&C							Se	rvices rer	dered ac	cording	to publisi	ned Gene	ral Terms	and Cor	ıdit

F-10							F	age 1 of 2
PORT/TERMINAL	Lake Charles,	La / C	Citgo		OFFICE LAKE	CHARLES, LA	TEL (337) 625-1455	
VESSEL CCL7		V	OY#		INSPECTOR(S):	JOE BUSBY	SGS FILE 111526	
CARGO Spent Ca	ustic				CLIENT CESE	nvironmental	REF TBD	
CCC		······································	SHORE	TANK MEA	SUREMENTS	S (STATIC)		
202		✓ A	AT LOADING		TRANSFER	AT DISCHARGE	Oil Gas & Chemicals Se	ervices Division.
SHORETANK # 1	82	REF HEIGH		G/	AUGE UNITS	✓ FT-IN ☐ FT ☐	MM OTHER:	
···				E: 8/19/2008 TIM			OPEN	CLOSE
OBS. REF. HEIGHT			BS. REF. HEIGHT		WATER INNAGE	INSPECTOR:	JOE BUSBY	MIKE ELLIOTT
28-9	26-3-1/2	0-0-0	11-4-1/2	8-11-1/4	0-0-0	WITNESS:	0000000	
						API @ 60ºF		
		 				SOURCE		
						AMBIENT AIR TEMP	79.0	80.0
		<u> </u>				TEMP OF TANK SHELL	85	86
						AVG TEMP (0.1°F)	85.5	86.8
§ MEASUREMENT	S TAKEN IN ACC	ORDANCE WITH :		INNAGE: API MPM	S 3.1A.9.2	AVG INNAGE	26-3-1/2	8-11-1/4
FREE WATER DE	TERMINED IN A	CCORDANCE WITH	:	API MPMS 3.1A.10	.1	AVG WATER INNAGE	0-0-0	0-0-0
# TEMPERATURES	TAKEN IN ACC	ORDANCE WITH :		API MPMS 7.6.4		VOLUME UNITS BB	LS M3 OTHER	
^ VOLUME CALCU	LATED IN ACCO	RDANCE WITH :		ASTM D 1250-04	7	TABLE VOLUME **	8437.31	2840.02
PROD TEMP	85.7 x ().875 = 74.9875 I	PROD TEMP	86.8 x 0.	875 = 75.9500	FREE WATER	0.00	0.00
(+) AIR TEMP	79.0 x (0.125 = 9.8750 ((+) AIR TEMP	80.0 x 0	125 = 10.0000	OBSERVED VOLUME	8437.31	2840.02
TANK SHELLTEMP	ERATURE:	= 85	TANK SHELL TE	MPERATURE	= 86	TANK SHELL CORR.	1.00000	1.00032
ROOF CORRECTION	ON INFO - STAND	DARD API:			<u> </u>	OBSERVED VOLUME	8437.31	2840.93
CRITICAL ZONE R	ANGE FROM	то	ROOF L	.EG 🔲 HIGH	Low	ROOF CORRECTION	0.00	0.00
		OPE	N	CL	OSE	GROSS OBSERVED VOL.	8437.31	2840.93
AVG INN/ULL IN C	RITICAL ZONE	YES	☑ NO	YES	✓ NO	^VCF TABLE : (t)	1.00000	1.00000
SIDEGAUGE/ATG		26-2-4 2	26-2-4	8-9-12/16	8-9-13/16	GROSS STANDARD VOL.	8437.31	2840.93
TEMPERATURES	² Ε	# PROBE	MERCURY	# PROBE	MERCURY	DIFFERENCE	559	6.38
* ACTION TAKEN	:	U ZM	85.7 L		86.8 🗍 L	CUSTODY TRANSFER SAN	IPLE:	
		□ M		□ M		API @ 60ºF/ DE		
		OTHER*		OTHER*		S & W % VOL.		
SIDETEMP/REMO	TE					S & W VOLUME		
PROBE WAS CHE	CKED PRIOR TO	USE YES	NO .	NOT USED		NET STANDARD VOLUME		
SAMPLING	·	V U V M	VL	□υ □ı	A DL	WCF TABLE : (t)		
* ACTION TAKEN	l :	□т □в	□R	□т □ в	B R	GROSS STANDARD WT.		
		OTHER*		OTHER*		NET STANDARD WEIGHT		

OP TEMP:

Copyright SGS-OGAC 2001 - Rev April 2005

Ref TSh Temp: 60

AT ULLAGES :

Services rendered according to published General Terms and Conditions

☐ MT ☑ LBS ☐ OTHER:

WEIGHT UNITS

LT

** IS TABLE VOLUME IN 🗹 BBLS 🗌 M3 🗌 OTHER :

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F-10							Page 2 of 2
PORT / TERMINAL: Lake Cha	arles, LA	/ Citgo		OFFICE LAKE	CHARLES, LA	TEL (337) 625-1455	•
VESSEL CCL 7		VOY#		INSPECTOR(S):	JOE BUSBY	SGS FILE 111526	
CARGO Spent Caustic				CLIENT CES E	NVIROMENTAL	REF	
CCC		SHORI	E TANK MEA	SUREMENT	S (STATIC)		
<u> 202</u>	~	AT LOADING		TRANSFER	AT DISCHARGE	Oil Gas & Chemicals	Services Division.
SHORETANK # 182	REF HE	GHT:	G,	AUGE UNITS	FT-IN 🗆 FT 🗆	MM OTHER:	
	08 TIME: 8:10	CLOSE DAT	E: 8/20/2008 TI	ME: 19:00		OPEN	CLOSE
OBS. REF. HEIGHT & INNA	GE WATER INNAGE	OBS. REF. HEIGHT	§ INNAGE	#WATER INNAGE	INSPECTOR:	MIKE ELLIOTT	MIKE ELLIOTT
20-6-1/4 18-0-5	5/8 0-0	13-0-3/4	10-7-1/2	0-0	WITNESS:		
					API @ 60°F		
					SOURCE		
					AMBIENT AIR TEMP	78.0	79.0
					TEMP OF TANK SHELL	86	86
					AVG TEMP (0.1ºF)	87.2	87.2
§ MEASUREMENTS TAKEN I	N ACCORDANCE WITH		INNAGE: API MPN	S 3.1A.9.2	AVG INNAGE	18-0-5/8	10-7-1/2
FREE WATER DETERMINE	D IN ACCORDANCE WITH	:	API MPMS 3.1A.10).1	AVG WATER INNAGE	0-0	0-0
# TEMPERATURES TAKEN I	N ACCORDANCE WITH	:	API MPMS 7.6.4		VOLUME UNITS 🗹 BBI	LS M3 OTHER	₹:
^ VOLUME CALCULATED IN	ACCORDANCE WITH	:	ASTM D 1250-04		TABLE VOLUME **	5779.64	3384.21
PROD TEMP 87.2	$2 \times 0.875 = 76.3000$	PROD TEMP	87.2 x 0	.875 = 76.3000	FREE WATER	0.00	0.00
(+) AIR TEMP 78.	0 x 0.125 = 9.7500	(+) AIR TEMP	79.0 x 0	.125 = 9.8750	OBSERVED VOLUME	5779.64	3384.21
TANK SHELLTEMPERATURE	= 86	TANK SHELL TE	MPERATURE	= 86	TANK SHELL CORR.	1.00032	1.00032
ROOF CORRECTION INFO -	STANDARD API:	•			OBSERVED VOLUME	5781.49	3385.29
CRITICAL ZONE RANGE FRO	OM TO	ROOF	LEG 🗌 HIGH	LOW	ROOF CORRECTION	0.00	0.00
	0	PEN	CL	OSE	GROSS OBSERVED VOL.	5781.49	3385.29
AVG INN/ULL IN CRITICAL Z	ONE YES	□ NO	YES	☐ NO	^VCF TABLE : (t)	1.00000	1.00000
SIDEGAUGE/ATG	17-10-15/16	17-10-15/16	10-5-13/16	10-5-11/16	GROSS STANDARD VOL.	5781.49	3385.29
TEMPERATURES °F	# PROBE	MERCURY	# PROBE	MERCURY	DIFFERENCE	23	96.20
* ACTION TAKEN :		I 87.2 □ L		1 87.2 🗌 L	CUSTODY TRANSFER SAN	PLE:	
	□ м		Пм		API @ 60°F/ DE		
	OTHER*		OTHER*		S & W % VOL.		
SIDETEMP/REMOTE					S & W VOLUME		
PROBE WAS CHECKED PR	IOR TO USE YES	NO 🗆	NOT USED		NET STANDARD VOLUME		
SAMPLING	□ u □	M DL	U DI	vi 🗆 L	WCF TABLE : (t)		
* ACTION TAKEN :		B R		3	GROSS STANDARD WT.		1
	OTHER*		OTHER*		NET STANDARD WEIGHT		
AT ULLAGES :			<u> </u>		WEIGHT UNITS LT	MT VIRS	OTHER:

OP TEMP:

Ref TSh Temp: 60

☐ MT ☑ LBS ☐ OTHER:

Services rendered according to published General Terms and Conditions

WEIGHT UNITS

LT

** IS TABLE VOLUME IN 🗹 BBLS 🗌 M3 🔲 OTHER :

CAL DATE : I

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2C 15-7 15-7 10-0-1/2 0-0-0 85.9 85.9 10-1-5/8 2620.81 0.00 2620.81 1.00000 2620.81	
DATE: 8/18/2008 CARGO: Spent Caustic CLIENT: CES Environmental REF: TBD	
VESSEL MEASUREMENT SYSTEM □ ARRIVAL □ DEPARTURE □ DEPARTURE □ OPEN □ CLOSE / RESTRICTED □ OFFI □ OPEN □ CLOSE / RESTRICTED □ OFFI □ OPEN □ CLOSE / RESTRICTED □ OFFI □ OPEN □ CLOSE / RESTRICTED □ OFFI □ OPEN □ CLOSE / RESTRICTED □ OFFI □ OPEN □ CLOSE / RESTRICTED □ OFFI □ OPEN □ CLOSE / RESTRICTED □ OFFI □ OPEN □ CLOSE / RESTRICTED □ OFFI □ OPEN □ CLOSE / RESTRICTED □ OFFI □ OPEN □ CLOSE / RESTRICTED □ OFFI □ OPEN □ CLOSE / RESTRICTED □ OFFI □ OPEN □ CLOSE / RESTRICTED □ OFFI □ OPEN □ CLOSE / RESTRICTED □ OFFI □ OPEN □ CLOSE / RESTRICTED □ OFFI □ OPEN □ CLOSE / RESTRICTED □ OFFI □ OPEN □ CLOSE / RESTRICTED □ O	7
ARRIVAL DEPARTURE DEPARTURE Oil Gas & Chemicals Services Division.	
AT LOADING	
UNITS:	
TANK # REFERENCE OBSERVED MATER INNAGE WATER INN S PROBE TEMPERATURES OF TEMP MEASURE OBSERVED WATER OBSERVED WATER OBSERVED VOLUME OUT	
HEIGHT REFERENCE INN S PROBE TEMP MEASURE OBSERVED VOLUME VOLUME (t) STANDARD VOLUME TEMP STANDARD VOLUME TEMP MEASURE OBSERVED VOLUME TEMP VOLUME TEMP VOLUME TEMP TEMP MEASURE OBSERVED VOLUME TEMP VOLUME TEMP VOLUME TEMP TEM	
2C 15-7 15-7 10-0-1/2 0-0-0 85.9 85.9 10-1-5/8 2620.81 0.00 2620.81 1.00000 2620.81	
3C 15-7-1/4 15-7-1/4 10-0-0 0-0-0 86.1 86.1 10-0-0 2616.64 0.00 2616.64 1.00000 2616.64	
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PROBE WAS CHECKED PRIOR TO USE YES NO NOT USED TOTALS 8150.14 0.00 8150.14 8150.14	
GAUGE LOCATION: STANDPIPE G.H. on Expansion Trunk CORRECTED MEASURE: w = Wedge corrected, t = Trim corrected	
OTHER: API @ 60°F SOURCE:	
* GAUGE POSITION: C = Center of tank F = Forward of Center A = Aft of Center S & W - VOL % : SOURCE :	
SAMPLES DRAWN: 1 QUART RUNNING PER TANK S&W-VOL: WCF TABLE: (t)	
NET STANDARD VOLUME	
BALLAST TANKS PERMANENT YES IF NO (SEE F-15 BALLAST TANKS) GROSS STANDARD WEIGHT	
SEASUCTION SEAL #'S: NET STANDARD WEIGHT	_
DRAFT: FWD (P) 9-6	
(S) 9-6 (S) 9-6 REMARKS:	
SEA CONDITION: CALM IN PORT ^ VOLUME CALCULATED IN ACCORDANCE WITH ASTM D 1250-04	
JOE BUSBY ALIQUID LEVEL GAUGES IN ACCORDANCE WITH API MPMS 17.2.5.2	
VESSEL'S STAFF INSPECTOR STEMPERATURE DETERMINATION IN ACCORDANCE WITH API MPMS 17.2.5.3	
Services rendered according to published General Terms and Condi	one

F-16												rage	1 01 1
PORT/	TERMINAL: La	ake Charles,	La		/ Citgo			OFFICE: LA	KE CHARLES, L	4	TEL: (30	37) 625-1455	
VESSEI	L: CCL 7				VOY #:			INSPECTOR(S	s): JOE BUSBY		SGS FILE	: 111526	
DATE:	8/18/20	08 CARGO: S	Spe	nt Caustic				CLIENT: CE	S Environmental		REF: TB	D	
90	5G				~	OBQ		ROB MEA	SUREMENT				
<u> </u>	10		_		NOTE:	DO NOT USE V	.C.F. IF T	EMPERATURE			Oil Gas 8	Chemicals Servic	es Division.
UNITS :	. 📝 F	T-IN		FT	□ MM		THER:		UNITS: 🗹 BI	BLS	U.S. GALS	. M³ □ O	THER:
TANK #	REFERENCE HEIGHT	OBSERVED REFERENC E HEIGHT	*	OBSERVED INNAGE	FREE WATER INNAGE	NON-LIQUID INNAGE	AVG. TEMP	CORRECTED MEASURE	TOTAL OBSERVED VOLUME	^ V.C.F.	FREE WATER VOLUME	NON-TIGNID	LIQUID VOLUME
1C	VISUAL	VISUAL	С	0-0-0	0-0-0	0-0-0	60	0-0-0	0.00	1.00000	0.00	0.00	0.00
2C	VISUAL	VISUAL	C	0-0-0	0-0-0	0-0-0	60	0-0-0	0.00	1.00000	0.00	0.00	0.00
3C	VISUAL	VISUAL	C	0-0-0	0-0-0	0-0-0	60	0-0-0	0.00	1.00000	0.00	0.00	0.00
			T										_
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			1	1			1						
		<u> </u>	十				- 						
^ V	OLUME CALCU	ATED IN ACCO	RDA	NCE WITH	ASTM D 1	250-04	, , , , , , , , , , , , , , , , , , , 	TOTALS	0.00		0.00	0.00	0.00
On	behalf of our cli	ent(s) we would	like t	o bring to your				d = dip, u =	: Ullage; corrected	ப measure,	w = Wedge o	corrected, t = Trim	corrected
		Bbls of L	LIQI	JID MATER	IAL			GAUGE LO	CATION: ST	ANDPIPE	✓ G.I	H. on Expansion tru	ınk
									OTHER	:		-	
				I-LIQUID M				* GAUGE P	OSITION: C = Cer	ter of tank	F = Forward	of Center A = Aft o	f Center
	nains on board y ationships, this (OBQ SAM	APLED	YES 🗸	NO IF NO	REASON	
inc	ase you are una	ble to do so ple	ase i	ndicate your rea	sons below.					······································			
	any event, we ha mpensation for t				e and reserve m	is right to seek		OBQ TES	TED	YES 🗸	NO IF NO	REASON	
	itements with re				sory services ex	press personal				· · · · · · · · · · · · · · · · · · ·			
- Opi	Sile William II	-sponoisinty (or						ROB SAM	MPLED	YES 🗸	NO IF NO	REASON	
								1					
 				<u></u>				DRAFT:	FWD (P) 2-0		AFT (P) 2-6	LIST	r: ⁹ (P) / (S)
		The second secon			JO	DE BUSBY			(S) 2-0		(S) 2-6		(. / . (0)
				1									

SEA CONDITION: CALM IN PORT

INSPECTOR

right SGS-OG&C 1997 - Rev April 2005

VESSEL'S STAFF

F-7									1 of 1
PORT / TERMIN	NAL: Lake Charles	s, La / Citgo		OFFICE:	LAKE CHA	ARLES, LA	TEL:	(337) 625-1-	45 5
VESSEL: CCL	7	VOY#:		INSPECTO	R(S): JOI	BUSBY			
DATE: 8/18/200	08			SGS FILE:	111526				
CARGO: Spent	t Caustic			CLIENT:	CES Enviro	onmental	REF:	TBD	
SGS		INF	ORMATION FO	R CLEANL	INESS IN			icals Services	Division.
AT LOADING	G AT TRA	ANSFER	AT DISCHARGE		☐ SH	ORE	Z	VESSEL	
1	THE INFORMATION ON T	THIS LIRIS F-7 WILL	BE USED TO COMPLET	E LIRIS F-9 WAS	SUBMITTED TO	US BY THE PER	SON(S) INDIC	ATED BELOW	
WE CONSULT	ED FOR TANK INS	PECTION ON (I	DATE) 8/19/200	08 (TIME)		1:05 WITH :			
	/ESSEL'S STAFF	BAF	RGE OPERATOR	Y TEF	RMINAL REF	PRESENTATIV	/E 🗌	CHARTER	RER
OTHER (S	PECIFY):								
PLEASE PRIN	T NAME(S)								
TANK MATERIA	AL:								
TANK #:		1-3 C		I					
MATERIAL		MILD STEEL							
COATING NAM	E	NONE							
APPARENT CO	NDITION *	ACCEPTABL	E						
TANK #:									
MATERIAL									
COATING NAMI									
APPARENT CO	NDITION *								
	CHECKED AGAIN	ST MANU	JFACTURERS	OTHER (SPECIFY)		CHE	CKLIST	
COATING WAS	CHECKED AGAINS ED, REASO								
COATING WAS IF NOT CHECKE SELECT:	CHECKED AGAIN: ED, REASO e.g. % MISSING	% DISCOLOR	ED %PEELING	ACCEPTABLE	etc. (ALL		GES ARE		TONS)
COATING WAS IF NOT CHECKE SELECT:	CHECKED AGAINS ED, REASO	% DISCOLOR	ED %PEELING	ACCEPTABLE	etc. (ALL		GES ARE		TONS)
COATING WAS F NOT CHECKE SELECT: UR INSPECTION FO	CHECKED AGAINS ED, REASO e.g. % MISSING OR F-9 COVERS THE CLE	% DISCOLOR	ED %PEELING	ACCEPTABLE	etc. (ALL		GES ARE		ions)
COATING WAS F NOT CHECKE SELECT: FOR INSPECTION FOR	CHECKED AGAINS ED, REASO e.g. % MISSING OR F-9 COVERS THE CLE	% DISCOLOR	ED %PEELING (ACCEPTABLE	etc. (ALL	O CONTAMINATI	GES ARE	APPROXIMAT	
F NOT CHECKE SELECT: UR INSPECTION FO PREVIOUS CAP TANK#	CHECKED AGAIN: ED, REASO e.g. % MISSING OR F-9 COVERS THE CLE RGOES: THIRD	% DISCOLOR	ED %PEELING A COATINGS, NOT ITS SU	ACCEPTABLE	E etc. (ALL	O CONTAMINATI	GES ARE	APPROXIMAT COMP	ATIBLE
F NOT CHECKE SELECT: UR INSPECTION FO PREVIOUS CAP TANK#	CHECKED AGAINS ED, REASO e.g. % MISSING OR F-9 COVERS THE CLE	% DISCOLOR	ED %PEELING (ACCEPTABLE	etc. (ALL	O CONTAMINATI	GES ARE	APPROXIMAT COMP	ATIBLE NO
COATING WAS F NOT CHECKE SELECT: BUR INSPECTION FO PREVIOUS CAF TANK#	CHECKED AGAIN: ED, REASO e.g. % MISSING OR F-9 COVERS THE CLE RGOES: THIRD	% DISCOLOR	ED %PEELING COATINGS, NOT ITS SU	ACCEPTABLE	E etc. (ALL	O CONTAMINATI	GES ARE	COMP COMP YES YES	ATIBLE NO NO
F NOT CHECKE SELECT: OUR INSPECTION FO PREVIOUS CAF TANK#	CHECKED AGAIN: ED, REASO e.g. % MISSING OR F-9 COVERS THE CLE RGOES: THIRD	% DISCOLOR	ED %PEELING COATINGS, NOT ITS SU	ACCEPTABLE	E etc. (ALL	O CONTAMINATI	GES ARE	COMP VES YES YES	ATIBLE NO NO NO
F NOT CHECKE SELECT: UR INSPECTION FO PREVIOUS CAP TANK#	CHECKED AGAIN: ED, REASO e.g. % MISSING OR F-9 COVERS THE CLE RGOES: THIRD	% DISCOLOR	ED %PEELING COATINGS, NOT ITS SU	ACCEPTABLE	E etc. (ALL	O CONTAMINATI	GES ARE	COMP VES YES YES YES	ATIBLE NO NO
F NOT CHECKE SELECT: OUR INSPECTION FO PREVIOUS CAF TANK#	CHECKED AGAIN: ED, REASO e.g. % MISSING OR F-9 COVERS THE CLE RGOES: THIRD	% DISCOLOR	ED %PEELING COATINGS, NOT ITS SU	ACCEPTABLE	E etc. (ALL	O CONTAMINATI	GES ARE	COMP VES YES YES YES YES	ATIBLE NO NO NO NO NO
F NOT CHECKE SELECT: OUR INSPECTION FO PREVIOUS CAF TANK#	CHECKED AGAIN: ED, REASO e.g. % MISSING OR F-9 COVERS THE CLE RGOES: THIRD	% DISCOLOR	ED %PEELING COATINGS, NOT ITS SU	ACCEPTABLE	E etc. (ALL	O CONTAMINATI	GES ARE	COMP VES VES VES VES VES VES VES VES VES	ATIBLE NO NO NO NO NO NO NO
F NOT CHECKE SELECT: UR INSPECTION FO PREVIOUS CAP TANK#	CHECKED AGAIN: ED, REASO e.g. % MISSING OR F-9 COVERS THE CLE RGOES: THIRD	% DISCOLOR	ED %PEELING COATINGS, NOT ITS SU	ACCEPTABLE	E etc. (ALL	O CONTAMINATI	GES ARE	COMP VES YES YES YES YES YES YES YES	ATIBLE NO NO NO NO NO NO
F NOT CHECKE SELECT: DUR INSPECTION FO PREVIOUS CAF TANK# 3 C	CHECKED AGAINS ED, REASO e.g. % MISSING OF F-9 COVERS THE CLE RGOES: THIRD CAUSTIC	% DISCOLOR	ED %PEELING COATINGS, NOT ITS SU	ACCEPTABLE	E etc. (ALL	O CONTAMINATI	GES ARE	COMP VES VES VES VES VES VES VES VES VES	ATIBLE NO NO NO NO NO NO NO
F NOT CHECKE SELECT: DUR INSPECTION FO PREVIOUS CAF TANK# 3 C	CHECKED AGAINS ED, REASO e.g. % MISSING OF F-9 COVERS THE CLE RGOES: THIRD CAUSTIC	% DISCOLOR ANLINESS OF THE LAST	SECON	ACCEPTABLE DITABILITY IN REC	E etc. (ALL	LAST	GES ARE A	COMP VES VES VES VES VES VES VES VES VES	ATIBLE NO NO NO NO NO NO NO NO NO
F NOT CHECKE SELECT: UR INSPECTION FO PREVIOUS CAF TANK# 3 C	CHECKED AGAINS ED, REASO e.g. % MISSING OF F-9 COVERS THE CLE RGOES: THIRD CAUSTIC	% DISCOLOR ANLINESS OF THE LAST	SECON	ACCEPTABLE	E etc. (ALL	LAST IC	GES ARE A	COMP VES VES VES VES VES VES VES VES VES VES	ATIBLE NO NO NO NO NO NO NO NO NO NO
COATING WAS F NOT CHECKE SELECT: UR INSPECTION FO PREVIOUS CAF TANK# 3 C	CHECKED AGAINS ED, REASO e.g. % MISSING OF F-9 COVERS THE CLE RGOES: THIRD CAUSTIC	% DISCOLOR ANLINESS OF THE LAST	SECON	ACCEPTABLE DITABILITY IN REC	E etc. (ALL	LAST IC PRE:	GES ARE ADD.	COMP V YES YES YES YES YES YES YES YES YES PRESSURE	ATIBLE NO NO NO NO NO NO NO NO NO
COATING WAS F NOT CHECKE SELECT: UR INSPECTION FO PREVIOUS CAF TANK# 3 C	CHECKED AGAINS ED, REASO e.g. % MISSING OF F-9 COVERS THE CLE RGOES: THIRD CAUSTIC	% DISCOLOR ANLINESS OF THE LAST	SECON	ACCEPTABLE DITABILITY IN REC	E etc. (ALL	PRES YES	SSED WIT	COMP VES VES VES VES VES VES VES VES PRESSURE	ATIBLE NO NO NO NO NO NO
COATING WAS F NOT CHECKE SELECT: UR INSPECTION FO PREVIOUS CAF TANK# 3 C	CHECKED AGAINS ED, REASO e.g. % MISSING OF F-9 COVERS THE CLE RGOES: THIRD CAUSTIC	% DISCOLOR ANLINESS OF THE LAST	SECON	ACCEPTABLE DITABILITY IN REC	E etc. (ALL	PRE:	SSED WIT	COMP VES VES VES VES VES VES VES PESSURE PRESSURE	ATIBLE NO NO NO NO NO NO
F NOT CHECKE SELECT: UR INSPECTION FO PREVIOUS CAF TANK# 3 C	CHECKED AGAINS ED, REASO e.g. % MISSING OF F-9 COVERS THE CLE RGOES: THIRD CAUSTIC	% DISCOLOR ANLINESS OF THE LAST	SECON	ACCEPTABLE DITABILITY IN REC	E etc. (ALL	PRE: YES YES YES YES	SSED WIT	COMP YES YES YES YES YES YES YES YES PRESSURE PRESSURE PRESSURE	ATIBLE NO NO NO NO NO NO
COATING WAS F NOT CHECKE SELECT: UR INSPECTION FO PREVIOUS CAF TANK# 3 C	CHECKED AGAINS ED, REASO e.g. % MISSING OF F-9 COVERS THE CLE REGOES: THIRD CAUSTIC	% DISCOLOR EANLINESS OF THE LAST	SECON CAUSTIC LAS	ACCEPTABLE DITABILITY IN REC	E etc. (ALL	PRES YES YES YES	SSED WIT NO NO NO NO	COMP VES VES VES VES VES VES VES PRESSURE PRESSURE PRESSURE PRESSURE	ATIBLE NO NO NO NO NO NO NO NO
COATING WAS F NOT CHECKE SELECT: OUR INSPECTION FO PREVIOUS CAF TANK# 3 C LINES - PUMPS NAME	CHECKED AGAINS ED, REASO e.g. % MISSING OF F-9 COVERS THE CLE RGOES: THIRD CAUSTIC	% DISCOLOR EANLINESS OF THE LAST RIAL OF THE CARGO PI	SECON CAUSTIC LAS	ACCEPTABLE DITABILITY IN REC D LAST T USED FOR	CAUST	PRES YES YES YES EXAMINATION.	SSED WIT NO NO NO NO NO IS RECOMM	COMP YES YES YES YES YES YES YES YES PRESSURE PRESSURE PRESSURE PRESSURE	ATIBLE NO NO NO NO NO NO NO NO
COATING WAS F NOT CHECKE SELECT: OUR INSPECTION FO PREVIOUS CAF TANK# 3 C LINES - PUMPS NAME	CHECKED AGAINS ED, REASO e.g. % MISSING OF F-9 COVERS THE CLE REGOES: THIRD CAUSTIC	% DISCOLOR EANLINESS OF THE LAST RIAL OF THE CARGO PI	SECON CAUSTIC LAS	ACCEPTABLE DITABILITY IN REC D LAST T USED FOR	CAUST	PRES YES YES YES EXAMINATION.	SSED WIT NO NO NO NO NO IS RECOMM	COMP VES VES VES VES VES VES VES PRESSURE PRESSURE PRESSURE PRESSURE PRESSURE PRESSURE PRESSURE PRESSURE PRESSURE PRESSURE PRESSURE PRESSURE PRESSURE	ATIBLE NO NO NO NO NO NO NO NO

OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455 INSPECTOR(S): JOE BUSBY SGS FILE: 111526
GGS EILE: 111526
CLIENT: CES Environmental REF: TBD
LINESS INSPECTION Oil Gas & Chemicals Services Division.
☐ AS INSPECTION ONLY ☐ AS PRE-INSPECTION WITH CUSTODY TRANSFER
E FORM F-9 PER INSPECTION
☐ THIRDTH INSPECTION
PECKLEVEL (SEE LIRIS F-15 OR F-20) LEVEL (SEE LIRIS F-16) PHERE STATEMENT BELOW MUST BE COMPLETED PRIOR TO ENTRY)
YTICAL REPORT ON FILE)
COILS
CARGO OF SPENT CAUSTIC
R CLIENT NOTIFIED ON BY
E 8/19/2008
BERTH IN CASE OF PRE-INSPECTION
JOE BUSBY
FOR TERMINAL INSPECTOR
D INFORMATION EVALUATION ? YES NO ERVISOR AND/OR CLIENT(S) IMMEDIATELY.
MOSPHERE STATEMENT
ine 13 of this page have been cleaned and gas freed as
nk(s) in question are in all respects safe for entry.
nnel to enter said tanks.
hours on
EOD TEDMINAL
FOR TERMINAL
ANK SAFE ATMOSPHERE STATEMENT is not signed rvisor for further instructions.

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-14				
PORT / TERMINAL: Lake Ch	narles, La / Citgo	OFFICE: LAKE CH	ARLES, LA TEL: (3	37) 625-1455
VÈSSEL: CCL 7	VOY#:	INSPECTOR(S): JC	E BUSBY	
DATE: 8/18/2008		SGS FILE: 111526		
CARGO: Spent Caustic		CLIENT: CES Envi	ronmental REF: T	BD
SGS	CARGO	QUANTITY OPT	Oil Gas & Chemicals	Services Division.
☑ AT LOADING ☐ AT	TRANSFER AT DISCHARGE	RESIDUAL	CLEAN PRODUCTS	CHEMICALS/GASES
BOVE VESSEL WILL	LOAD DISCHARGE	AT THIS TERMINAL	AT (SPECIFY):	
S PER 🗌 CHARTER PA	ARTY AMENDED C/P 🗹 PF	RINCIPAL'S INSTRUCTION	S OTHER (SPECIFY)	
OLLOWING QUANTITY(S) O	F SPENT CAUSTIC			
[7) [] LT [] A	AT POUNDS	OTHER (SPECIFY)	9-6 DRAFT
OR: (,	A ³ OTHER	AT STD. TEMP	OBSERV. TEM
HIS QUANTITY(S) IS SPECIF	FIED AS:			
MINIMUM MAXI	IMUM	OR MINUS	✓ OTHER (SPECIFY	9-6 DRAFT
PLUS OR MINUS	%" IS THE OPTION OF	VESSEL	TERMINAL	CLIENT
PLUS OR MINUS	%" IS OPTED FOR BY	VESSEL	TERMINAL	CLIENT
THE ABOVE QUANTITY(- WILL BE DELIVERED	D BY SHIP'S S / DISCHARGED FROM TA LIDED INTO TANK(S) 1-3	NK(S) ST 182	STOP
			•	
ESSEL'S CO-MINGLING	ACCEPTABLE TO OUR PRINCIPA	L YES	□ NO	
ESSEL'S CO-MINGLING ARGO REQUIRES		YES	□ NO VOLUMETRIC BLENDING	
ARGO REQUIRES				
ARGO REQUIRES	SEL'S STAFF :	EPARATION	VOLUMETRIC BLENDING	
ARGO REQUIRES IGNATURES) VESS TERMINAL REPRE	SEL'S STAFF :	DATE :	VOLUMETRIC BLENDING TIME: TIME:	
ARGO REQUIRES IGNATURES) VESS TERMINAL REPRE	SEGREGATION S SEL'S STAFF: ESENTATIVE: INSPECTOR: JOE BUSBY	DATE:	VOLUMETRIC BLENDING TIME: TIME:	
ARGO REQUIRES IGNATURES) VESS TERMINAL REPRE	SEGREGATION SEL'S STAFF: ESENTATIVE: INSPECTOR: JOE BUSBY - TAKEN BY	DATE: DATE: DATE: DATE:	TIME: TIME: TIME:	
ARGO REQUIRES IGNATURES) VESS TERMINAL REPRE	SEGREGATION S SEL'S STAFF: ESENTATIVE: INSPECTOR: JOE BUSBY - TAKEN BY	DATE: DATE: DATE: DATE: NSPECTOR	TIME: TIME: 2008 TIME: 1:05	
ARGO REQUIRES IGNATURES) VESS TERMINAL REPRE	SEGREGATION S SEL'S STAFF: ESENTATIVE: INSPECTOR: JOE BUSBY - TAKEN BY - TAKEN BY - WITNESSE	DATE: DATE: DATE: DATE: 8/19/2 INSPECTOR TERMINAL / VESSEL	TIME: TIME: 2008 TIME: 1:05	
ARGO REQUIRES IGNATURES) VESS TERMINAL REPRE	SEGREGATION S SEL'S STAFF: ESENTATIVE: INSPECTOR: JOE BUSBY - TAKEN BY - TAKEN BY - WITNESSE	DATE: DATE: DATE: DATE: 8/19/2 INSPECTOR TERMINAL / VESSEL	TIME: TIME: 2008 TIME: 1:05	
ARGO REQUIRES IGNATURES) VESS TERMINAL REPRE	SEGREGATION S SEL'S STAFF: ESENTATIVE: INSPECTOR: JOE BUSBY - TAKEN BY - TAKEN BY - WITNESSE	DATE: DATE: DATE: DATE: 8/19/2 INSPECTOR TERMINAL / VESSEL	TIME: TIME: 2008 TIME: 1:05	
ARGO REQUIRES IGNATURES) VESS TERMINAL REPRE	SEGREGATION S SEL'S STAFF: ESENTATIVE: INSPECTOR: JOE BUSBY - TAKEN BY - TAKEN BY - WITNESSE	DATE: DATE: DATE: DATE: 8/19/2 INSPECTOR TERMINAL / VESSEL	TIME: TIME: 2008 TIME: 1:05	
ARGO REQUIRES IGNATURES) VESS TERMINAL REPRE	SEGREGATION S SEL'S STAFF: ESENTATIVE: INSPECTOR: JOE BUSBY - TAKEN BY - TAKEN BY - WITNESSE	DATE: DATE: DATE: DATE: 8/19/2 INSPECTOR TERMINAL / VESSEL	TIME: TIME: 2008 TIME: 1:05	
ARGO REQUIRES IGNATURES) VESS TERMINAL REPRE	SEGREGATION S SEL'S STAFF: ESENTATIVE: INSPECTOR: JOE BUSBY - TAKEN BY - TAKEN BY - WITNESSE	DATE: DATE: DATE: DATE: 8/19/2 INSPECTOR TERMINAL / VESSEL	TIME: TIME: 2008 TIME: 1:05	
ARGO REQUIRES IGNATURES) VESS TERMINAL REPRE	SEGREGATION S SEL'S STAFF: ESENTATIVE: INSPECTOR: JOE BUSBY - TAKEN BY - TAKEN BY - WITNESSE	DATE: DATE: DATE: DATE: 8/19/2 INSPECTOR TERMINAL / VESSEL	TIME: TIME: 2008 TIME: 1:05	
ARGO REQUIRES IGNATURES) VESS TERMINAL REPRE	SEGREGATION S SEL'S STAFF: ESENTATIVE: INSPECTOR: JOE BUSBY - TAKEN BY - TAKEN BY - WITNESSE	DATE: DATE: DATE: DATE: 8/19/2 INSPECTOR TERMINAL / VESSEL	TIME: TIME: 2008 TIME: 1:05	
ARGO REQUIRES IGNATURES) VESS TERMINAL REPRE	SEGREGATION S SEL'S STAFF: ESENTATIVE: INSPECTOR: JOE BUSBY - TAKEN BY - TAKEN BY - WITNESSE	DATE: DATE: DATE: DATE: 8/19/2 INSPECTOR TERMINAL / VESSEL	TIME: TIME: 2008 TIME: 1:05 YES NO YES NO	
ARGO REQUIRES IGNATURES) VESS TERMINAL REPRE	SEGREGATION S SEL'S STAFF: ESENTATIVE: INSPECTOR: JOE BUSBY - TAKEN BY - TAKEN BY - WITNESSE	DATE: DATE: DATE: DATE: 8/19/2 INSPECTOR TERMINAL / VESSEL	TIME: TIME: 2008 TIME: 1:05 YES NO YES NO	
ARGO REQUIRES IGNATURES) VESS TERMINAL REPRE RE STOP GAUGES: EMARKS: LOAD TO 9-6 D	SEGREGATION S SEL'S STAFF: ESENTATIVE: INSPECTOR: JOE BUSBY -TAKEN BY -TAKEN BY -WITNESSE DRAFT AND CHECK ON STOP GAUGE MEASURE ES ARE SOLELY RESPONSIBLE FOR OBS	DATE: DATE: DATE: DATE: BATE: DATE: BATE: DATE: BATE:	VOLUMETRIC BLENDING TIME: TIME: 2008 TIME: 1:05 YES NO YES NO YES NO	ZESSEL AND
ARGO REQUIRES IGNATURES) VESS TERMINAL REPRE RE STOP GAUGES: EMARKS: LOAD TO 9-6 D OTE: (1) WE CALCULATE A TERMINAL EMPLOYER OF THE DESIGNATED (2) OUR STAFF IS AV COMPONENTS AND T	SEGREGATION S SEL'S STAFF: ESENTATIVE: INSPECTOR: JOE BUSBY -TAKEN BY -TAKEN BY -WITNESSE DRAFT AND CHECK ON STOP GAUGE MEASURE ES ARE SOLELY RESPONSIBLE FOR OBS	DATE: DATE: DATE: DATE: BATE: DATE: BATE: BATIONS. BATION	TIME: TIME: 1:05 YES NO YES NO YES NO YES NO OUR CLIENTS; HOWEVER, VES, VALVE SETTING AND PUM	ESSEL AND PING INTO AND OUT



Inspection Report (LOADING)

Subject: CCL 7

Date:

8/3/2008

Our ref.: 108156

Client ref.;

Product: SULFIDIC CAUSTIC

Location: Lake Charles, La / Citgo

Client: CES ENVIRONMENTAL SERVICES

Summary of Figures	Bbls @ 60°F	Gallons @ 60°F	Long Tons	Metric Tonnes	Pounds
Shore Measurements					
Total Shore figures delivered GSV	7,624.82	320,242.44			
Average API Gravity @ 60°F					
Shoretanks no(s): TANK 182, TANK 182					
Vessel's Measurements					
Vessel's figures before loading (OBQ) Free Water	0.00				
Vessel's figures before loading (OBQ) Liquid	0.00				
Vessel's figures before loading (OBQ) Non Liquid	0.00				
Vessel's figures before loading (OBQ) Total	0.00	0.00			
Vessel's figures TCV on board after loading	8,039.28	337,649.76			
Vessel's figures TCV loaded	8,039.28	337,649.76			
Vessel's figures Free Water loaded	0.00	0.00			
Vessel's figures GSV loaded	8,039.28	337,649.76			

Cargo stowage Cargo tanks no(s):

CCL 7[1C, 2C, 3C]

Samples

Shore Tank 2x1 Quarts Running Barges - 1x1 Quart Running Per Cargo Tank

Quality

None Requested

Time Log

8/1/2008	1705	BARGE ARRIVED
	1715	BARGE DOCKED
	1740	INSPECTOR NOTIFIED
	1840	INSPECTOR ARRIVED
	1910	S/T 182 GAUGED OPEN AND SAMPLED
	2000	COMMENCED PRE-DECK INSPECTION
	2010	COMPLETED PRE-DECK INSPECTION
8/2/2008	0001	INSPECTOR DEPARTED
	0100	CARGO HOSE CONNECTED (1X6)
	0115	COMMENCED LOADING (TANKERMAN WAS LATE)
	1345	INSPECTOR NOTIFIED
	1410	LOAD SUSPENDED, LACK OF PRODUCT
	1425	INSPECTOR ARRIVED

SGS North America Inc.

Oil, Gas & Chemicals Services 4701 E. NAPOLEON SULPHUR, LA 70663 t((337) 625-1455) f((337) 625-1721) www.sgs.com

Member of the SGS Group (Société Générale de Surveillance)



	1500	CARGO HOSE DISCONNECTED
	1530	S/T 182 GAUGED CLOSED
8/3/2008	0010	INSPECTOR NOTIFIED
	0030	INSPECTOR ARRIVED
	0100	S/T 182 GAUGED OPEN
	0830	CARGO HOSE CONNECTED
	0845	RESUMED LOADING
	1245	INSPECTOR NOTIFIED
	1315	COMPLETED LOADING
	1345	INSPECTOR ARRIVED
	1400	CARGO HOSE DISONNECTED
	1450	S/T 182 GAUGED CLOSED
	1530	COMMENCED FINAL INSPECTION
	1600	COMPLETED FINAL INSPECTION
	1700	INSPECTOR DEPARTED

Steve Cross for SGS OII, Gas & Chemicals Services 8/4/2008

Shore volume calculated in accordance with: Vessel volume calculated in accordance with:

ASTM D 1250-04

Procedures as per applicable MPMS Chapter 3.1a, 7, 8.1 or 8.2, 12.1 or 12.2, 17.1, 17.2, 17.4.

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FIRCC REV. January 2007

F-4	Page	

PORT / TERMINAL: Lake Charles, La / Citgo	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 7 VOY #:	INSPECTOR(S): TM
DATE: 8/3/2008	SGS FILE: 108156
CARGO: SULFIDIC CAUSTIC	CLIENT: CES ENVIRONMENTAL REF:

SGS

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TIME LOG

Barde Hour	9	U 3						Oil	Gas & C	hemical	s Servic	es Divis	ion.
Hour BARGE ARRIVED BARGE DOCKED BARGE DOCKED 17.40	<u> </u>	ATLO	ADING		AT TRANSF	ER				☐ AT	DISCHA	RGE	
## 17:05 BARGE ARRIVED ## 17:15 BARGE DOCKED ## 17:15 BARGE DOCKED ## 17:15 BARGE DOCKED ## 17:15 BARGE DOCKED ## 18:40 INSPECTOR NOTIFIED ## 18:40 INSPECTOR ARRIVED ## 19:10 ST 182 GAUGEO OPEN AND SAMPLED ## 19:10 CARGO HOSE CONNECTED (1X6) ## 19:10 CARGO HOSE CONNECTED (1X6) ## 19:10 CARGO HOSE DISCONNECTED ## 19:10 CARGO HOSE DISCONNECTED ## 19:10 ST 182 GAUGED CLOSED ## 19:10 CARGO HOSE DISCONNECTED ## 19:10 ST 182 GAUGED CLOSED ## 19:10 CARGO HOSE DISCONNECTED ## 19:10 CARGO HOSE CONNECTED ## 19:10 ST 182 GAUGED CLOSED ## 19:10 CARGO HOSE DISCONNECTED ## 19:10 CARGO HOSE DISCONNECTED ## 19:10 CARGO HOSE CONNECTED ## 19:10 CARGO HOSE DISCONNECTED ##			EAR 2008 / MONTH	JAN FEB	A RAM	PR MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC
17:15 BARGE DOCKED			PARCE ADDIVED										
17:40			<u> </u>										
18:40			<u> </u>	· · · · · · · · · · · · · · · · · · ·				·					
19:10 S/T 182 GAUGED OPEN AND SAMPLED			<u> </u>										
20.00 COMMENCED PRE-DECK INSPECTION			<u> L</u>		DI ED								
20:10 COMPLETED PRE-DECK INSPECTION 20:20 10:00 INSPECTOR DEPARTED 20:21 10:00 CARGO HOSE CONNECTED (1X6) 20:21 13:45 INSPECTOR NOTIFIED 20:22 14:10 LOAD SUSPENDED, LACK OF PRODUCT 20:23 14:10 LOAD SUSPENDED, LACK OF PRODUCT 20:24 14:25 INSPECTOR ARRIVED 20:25 15:30 S7T 182 GAUGED CLOSED 20:36 00:10 INSPECTOR ARRIVED 20:37 10:00 S7T 182 GAUGED OPEN 20:38 00:30 CARGO HOSE CONNECTED 20:39 00:30 CARGO HOSE CONNECTED 20:30 00:30 CARGO HOSE CONNECTED 20:31 10:45 INSPECTOR NOTIFIED 20:31 13:15 COMPLETED LOADING 30:31 13:45 INSPECTOR ARRIVED 30:31 14:50 S7T 182 GAUGED CLOSED 30:31 14:50 S7T 182 GAUGED CL			L										
			1										
01:00 CARGO HOSE CONNECTED (1X8) 02:01:15 COMMENCED LOADING (TANKERMAN WAS LATE) 03:45 INSPECTOR NOTIFIED 04:10 LOAD SUSPENDED, LACK OF PRODUCT 05:10 INSPECTOR ARRIVED 06:10 CARGO HOSE DISCONNECTED 07:10 INSPECTOR ORTHFIED 08:30 S/T 182 GAUGED CLOSED 09:30 INSPECTOR NOTIFIED 09:30 INSPECTOR ARRIVED 09:30 CARGO HOSE CONNECTED 09:30 CARGO HOSE CONNECTED 09:30 CARGO HOSE CONNECTED 09:30 CARGO HOSE CONNECTED 09:31 CARGO HOSE CONNECTED 09:32 CARGO HOSE CONNECTED 09:33 CARGO HOSE CONNECTED 09:34 RESUMED LOADING 19:45 INSPECTOR NOTIFIED 19:45 INSPECTOR ARRIVED 19:46 CARGO HOSE DISCONNECTED 19:47 CARGO HOSE DISCONNECTED 19:48 CARGO HOSE DISCONNECTED 19:49 CARGO HOSE DISCONNECTED 19:40 CARGO HOSE DISCONNECTED			<u> </u>		ON			· · · · · · · · · · · · · · · · · · ·					
13:45 COMMENCED LOADING (TANKERMAN WAS LATE)			<u> L</u>										
13:45 INSPECTOR NOTIFIED 14:10			<u> </u>		MANIMACI	ATE)							
14:10			<u> </u>	`_	VIAIN VVAS I	LATE)							
14:25 INSPECTOR ARRIVED 15:00 CARGO HOSE DISCONNECTED 15:30 S/T 182 GAUGED CLOSED 173 00:10 INSPECTOR NOTIFIED 174 00:30 INSPECTOR ARRIVED 175 00:30 INSPECTOR ARRIVED 176 08:30 CARGO HOSE CONNECTED 177 08:30 CARGO HOSE CONNECTED 178 08:45 RESUMED LOADING 179 12:45 INSPECTOR NOTIFIED 170 13:15 COMPLETED LOADING 170 14:50 S/T 182 GAUGED CLOSED 170 14:50 S/T 182 GAUGED CLOSED 170 17:00 INSPECTOR DEPARTED 170 INSPECTOR DEPARTED 170 DELAYS AND STOPPAGES :			L		DUCT								
15:00			<u> L</u>		0001				,,- -	·	. —		
10:10													
3													
12:45 INSPECTOR NOTIFIED 13:15 COMPLETED LOADING 13:45 INSPECTOR ARRIVED 14:00 CARGO HOSE DISONNECTED 14:50 S/T 182 GAUGED CLOSED 15:30 COMMENCED FINAL INSPECTION 16:00 COMPLETED FINAL INSPECTION 17:00 INSPECTOR DEPARTED DELAYS AND STOPPAGES :													
12:45	3/3												
13:15 COMPLETED LOADING 13:45 INSPECTOR ARRIVED 14:00 CARGO HOSE DISONNECTED 14:50 S/T 182 GAUGED CLOSED 15:30 COMMENCED FINAL INSPECTION 16:00 COMPLETED FINAL INSPECTION 17:00 INSPECTOR DEPARTED DELAYS AND STOPPAGES :	3/3			D									
13:45 INSPECTOR ARRIVED 14:00 CARGO HOSE DISONNECTED 15:30 COMMENCED FINAL INSPECTION 16:00 COMPLETED FINAL INSPECTION 17:00 INSPECTOR DEPARTED DELAYS AND STOPPAGES:	3/3												
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73 14:50 S/T 182 GAUGED CLOSED 73 15:30 COMMENCED FINAL INSPECTION 73 16:00 COMPLETED FINAL INSPECTION 75 17:00 INSPECTOR DEPARTED DELAYS AND STOPPAGES:	/3	14:00											
73 15:30 COMMENCED FINAL INSPECTION 73 16:00 COMPLETED FINAL INSPECTION 73 17:00 INSPECTOR DEPARTED DELAYS AND STOPPAGES:	/3												
73 16:00 COMPLETED FINAL INSPECTION 73 17:00 INSPECTOR DEPARTED DELAYS AND STOPPAGES:	/3												
17:00 INSPECTOR DEPARTED DELAYS AND STOPPAGES:	/3	16:00											
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	DEL	AYS AND	STOPPAGES:										
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S MARKED * ARE SUBMITTED TO US. TIME LOG PAGE 1: OF	1												

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F-1						e) oʻ
PORT / TERMINAL: Lake Charles,		0		KE CHARLES, LA	TEL (337)	325-1455
VESSEL CCL 7	VOY#		INSPECTOR(S			
DATE 8/3/2008				08156		
CARGO SULFIDIC CAUSTIC				S ENVIRONMEN	IAL HEF	
SGS		SHORE QUA	NTITY SUMI	VIARY Oil (Gas & Chemicals Se	rvices Division.
AT LOADING . AT TRANS	SFER 🗆	AT DISCHARGE	SHORE	TANK (STATIC)	□ METE	R (DYNAMIC)
CUSTODY TRANSFER SAMPLE						
API @ 60°F:	<u> </u>	R.D. 60°F/60°F		Densi	ty Lbs/Gal@	
S&W % VOL:						
SOURCE OF ANALYTICAL DATA:						
	UNITS	TANK 182	TANK 182	TANK/METER	TANK/METER	TANK/METER
TOTAL CALCULATED VOLUME	BBLS	5847.26	1777.56			
FREE WATER	BBLS	0.00	0.00			
GROSS STANDARD VOLUME	BBLS	5847.26	1777.56			
8 & W VOLUME	BBLS					
NET) STANDARD VOLUME	BBLS					
VCF TABLE (1)						
GROSS STANDARD WEIGHT	LBS					
& W WEIGHT	LBS					
NET) STANDARD WEIGHT	LBS					
	L				<u> </u>	
	UNITS	TANK/METER	TANK/METER	SHORELINE	TOTAL DE	LIVERED
OTAL CALCULATED VOLUME	BBLS			· ,	7624	.82
REE WATER	BBLS				0.0	0
ROSS STANDARD VOLUME	BBLS				7624	.82
& W VOLUME	BBLS					
NET) STANDARD VOLUME	BBLS					
					GSV NSV	sv @
ROSS STANDARD WEIGHT	LBS					
& W WEIGHT	LBS					<u> </u>
NET) STANDARD WEIGHT	LBS					·············

STOWAGE	O/B VESSEL: 1-3C	
		B/L DATE:
REMARKS	QUANTITY CONFIRMED	QUANTITY CHANGES YES NO IF YES STATE REASON
with	of	
with	of	
Date	Time	

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F-3A	•	

PORT / TERMINAL: Lake Charles, La / Citgo	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 7 VOY #:	INSPECTOR(S): TM
DATE: 8/3/2008	SGS FILE: 108156
CARGO: SULFIDIC CAUSTIC	CLIENT: CES ENVIRONMENTAL REF:

363		v	OYAGE AN	ias & Chemicals Services Divis			
LOADING	V-V T	RANSFER [DISCHARGE	SUMMARY		Type of Voyag	e C/P DA
_oad Port/Terminal/Berth		ARRIVED	SAILED	Discharge Port/T	erminal/Berth	ARRIVED	SAILED
C. / CITGO / C SLIP		8/1/2008	8/3/2008				
OLUME UNITS		SUPPLIER	RECEIVER	VCF SHORE LOAD	VCF SHORE DISC	H VCF VESSEL LOA	D VCF VESSEL DI
BBLS GALS M3] L						
DESCRIPTION API/DEN	SITY	TCV	FW	GSV	S&W	NSV	Reference
. COMPARISON OF SHOR	E QUAN						
II of Lading 1.		7624.82	0.00	7624.82		<u> </u>	(1)
utturn 2.							(2)
ff. 3.							(3)=(2) - (1)
ff. % 4.	31 3						$(4) = (3) / (1) \times 100$
ecalc. B/L 5.	(a)		Recalculate if	B/L and O/T use di	ifferent tables.		(5) (a) Vol. Dif
. VESSEL/SHORE QUANT	***************************************		PORT(S)				
ssel Salling	A.	8039,28	0.00	8039.28	LIQUID	NON-LIQUID	A)
OBQ (All)	В.	0.00	0.00	0.00	0.00	0.00	(8)
Loaded	C.	8039.28	0.00	8039.28			(C)=(A) - (B)
Difference	D.	414.46	0.00	414.46			(D)=(C)-[(1) or (5)]
Difference %	E.	5.44%		5.44%		<u> </u>	(E)=(D)/[(1)or(5)]x1
ad Vessel Ratio	F.	1.0544					(F)=(C)((1)or(5))
ad VEF	G.	0.00000					(G)
eoretical Shore	H.	0.00					(H)=(C) / (G)
eoretical Shore Diff.	l.	-7624.82					(I)=(H) - [(1) or (5)]
eoretical Shore Diff. %	J.	-100.00%					(J)≈(I)/[(1) or (5)]×1
VESSEL/SHORE QUANT		r() DISCH	ARGE PORT(S)				
ssel Arrival	K.	- Q2-(LIQUID	NON-LIQUID	(K)
ROB (All)	L.						L)
Discharged	M.						(M) = (K) - (L)
Difference	N.		-				(N) = (2) - (M)
Difference %	0.						$(O) = (N) / (2) \times 100$
charge Vessel Ratio	Р.						(P) = (M) / (2)
charge VEF	Q.		9.3				(Q)
eoretical Shore	R.						(P) = (M) / (Q)
eoretical Shore Diff.	S.						(S) = (2) · (A)
eoretical Shore Diff. %	T.			·			$(T) \approx (S) / (2) \times 100$
VESSEL/'S COMPARISON	OF LO	ADING AND DIS	CHARGE PORT(S) VCF TABLE MU	IST BE CONSIST	ENT	
nsit Difference	U.			<u> </u>			(U) ≈ (K) - (A)
Difference %	٧.				LIQUID	NON-LIQUID	V) ≈ (U) / (A) x 100
Q/ROB Difference	W.						W) = (L) - (B)
I TCV DIFF :	T((Quanti	CV Difference (3) - 0 ty) / 0.00	· · · · · · · · · · · · · · · · · · ·	[S& S&W at Load Port	: (W(1)/GSV(1)]X100 ([5 S&W at Disch Po	&W(2)/GSV(2)]X1 rt:
nments :	PARTY CONTRACT						

REMARKS:								
						· · · · · · · · · · · · · · · · · · ·		
STOWAGE O/B VESSEL: 1-3C								
ARE SLOPS INCLUDED IN CALC	ULATIONS	YES	~	NO	NO	SLOPS ON BOARD		
NET) STANDARD VOLUME								
& W VOLUME								
ROSS STANDARD VOLUME	8039.28	337649.76						
REE WATER	0.00	0.00						
OTAL CALCULATED VOL	8039.28	337649.76	200 0.00 0.00				91	
TONDED GOMAIII	·	A sect						
✓ LOADED QUANTITI	ıFS		DISCHAF	RGED QUA	NTITIES			
OTAL	0.00	0.00						
REE WATER	0.00	0.00						
ON-LIQUID MATERIAL	0.00	0.00						
IQUID MATERIAL	0.00	0.00						
				··· · · · · · · · · · · · · · · · · ·				
✓ OBQ			ROB					
ET) STANDARD VOLUME								
& W VOLUME								
ROSS STANDARD VOLUME	8039.28	337649.76	6					
REE WATER	0.00	0.00	kai					
OTAL CALCULATED VOL	8039.28	337649.76	6				T	
ESSEL'S QUANTITIES	V.E.F. CC	PRECTED:		ES	NO	VEF:	⊥ (AIR)	
	BBLS	U.S. GALS	3 (t	WCF	POUNDS	LONG TONS	METRIC TONS	
SOURCE OF ANALYTICAL DATA								
S&W % VOL:	A.			·				
		R.D. 60°F/60°F			Densi	ity Lbs/Gal @		
API @ 60°F:	, , ,	3 D. 0007/0007				the Col O		
AT LOADING AT TE	RANSFER A	T DISCHARGE		CRUDE O	IL	PROD	DUCTS	
SGS	V	ESSEL QUA	ANTIT	Y SUMI	MARY Oil	Gas & Chemicals Se	ervices Division.	
CARGO: SULFIDIC CAUSTIC						TAL REF:		
DATE: 8/3/2008			SGS FILE: 108156 CLIENT: CES ENVIRONMENTAL REF:					
VESSEL: CCL 7	VOY#:		INSPECTOR(S): TM					
PORT / TERMINAL: Lake Charl	ica, La , Ciido			E: LAKE				

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F-10								Page 1 of 2	
	L: Lake Charles, L	<u> </u>	/ Citgo		OFFICE LAKE	CHARLES, LA	TEL (337) 625-1455		
VESSEL CCL 7	Lake Chanes, L	α ,	VOY#		INSPECTOR(S):	······································	SGS FILE 108156		
CARGO SULFID	IC CALISTIC					NVIRONMENTAL SERVIC			
OOO	10 0/100110		SHODI	E TANK ME	ASUREMENT				
SGS		V	AT LOADING		TRANSFER	AT DISCHARGE	Oil Gas & Chemicals S	Services Division.	
SHORETANK #	182	REF HEI				V FT-IN FT	MM OTHER:		
OPEN DAT	E: 8/1/2008 TII	ME: 19:10	CLOSE DAT	E: 8/2/2008 T	ME: 15:30	**************************************	OPEN	CLOSE	
OBS. REF. HEIGHT		wATER INNAGE	OBS. REF. HEIGHT	§ INNAGE	×WATER INNAGE	INSPECTOR:	TM	TM	
30-0-1/4	27-6-1/2	NIL	11-10-1/4	9-5-0/0	NIL	WITNESS:			
						API @ 60°F/ DENS. @ 15°	<u>, , , , , , , , , , , , , , , , , , , </u>		
						SOURCE	TERMINAL	TERMINAL	
						AMBIENT AIR TEMP			
						TEMP OF TANK SHELL	80	79	
						AVG TEMP (0.1°F)	91.6	90.4	
§ MEASUREMEN	TS TAKEN IN ACCO	RDANCE WITH	:	INNAGE: API MP	MS 3.1A.9.2	AVG INNAGE	27-6-1/2	9-5-0/0	
* FREE WATER	ETERMINED IN AC	CORDANCE WITH	:	API MPMS 3.1A.1	0.1	AVG WATER INNAGE	3-5-1/2	3-8-0/0	
# TEMPERATURE	S TAKEN IN ACCO	RDANCE WITH	:	API MPMS 7.6.4		VOLUME UNITS 🗹 BB	LS M3 OTHER	l :	
^ VOLUME CALC	ULATED IN ACCOR	RDANCE WITH	:	ASTM D 1250-04		TABLE VOLUME **	8840.32	2994.55	
PROD TEMP	91.6 x 0.	875 = 80.1500	PROD TEMP	90.4 x	0.875 = 79.1000	FREE WATER	0.00	0.00	
(+) AIR TEMP	× 0.	125 =	(+) AIR TEMP	x (0.125 ≈	OBSERVED VOLUME	8840.32	2994.55	
TANK SHELLTEM	PERATURE:	= 80	TANK SHELL TE	MPERATURE	≥ 79	TANK SHELL CORR.	1.00025	1.00024	
ROOF CORRECT	ION INFO - STANDA	ARD API:				OBSERVED VOLUME	8842.53	2995.27	
CRITICAL ZONE	RANGE FROM	ТО	ROOF	LEG 🗌 HIG	H 🗆 LOW	ROOF CORRECTION	0.00	0.00	
		OP	EN	CI	OSE	GROSS OBSERVED VOL.	8842.53	2995.27	
AVG INN IN CRIT	ICAL ZONE	T YES	✓ NO	YES	₹ NO	^VCF TABLE : (t)	1.00000	1.00000	
SIDEGAUGE/ATG	ì	26-11-7/8 /	26-11-11/16	8-9-1/4	4 / 8-9-1/8	GROSS STANDARD VOL.	8842.53	2995.27	
TEMPERATURES	°F	# PROBE	MERCURY	# PROBE	MERCURY	DIFFERENCE	584	47.26	
* ACTION TAKE	٧:	☑ U 91.6 ☑ M	91.6 🗹 L 91.6	☑ U 90.4 🗌 I	M 🗆 L	CUSTODY TRANSFER SAM	IPLE:		
		□ M		□ M		API @ 60°F/ DE			
		OTHER*		OTHER*		S & W % VOL.			
SIDETEMP/REMO	OTE		-		92.4	S & W VOLUME			
PROBE WAS CH	ECKED PRIOR TO	USE 🗸 YES	NO I	NOT USED		NET STANDARD VOLUME			
SAMPLING			A UL	□ υ	M 🖺 L	WCF TABLE : (t)			
* ACTION TAKE	N:	Пт Пв	3 ☑ R 2QT	Т	B 🗌 R	GROSS STANDARD WT.			

OTHER*

OP TEMP:

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AT ULLAGES :

CAL DATE: 10/6/2000

OTHER*

Ref TSh Temp: 60

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LBS OTHER:

NET STANDARD WEIGHT

LT

☐ MT

"IS TABLE VOLUME IN BBLS M3 OTHER:

WEIGHT UNITS

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PORT / TERMINAL: Lake Charles, La	/ Citgo	OFFICE LAKE CHARLES, LA	TEL (337) 625-1455
VESSEL CCL 7	VOY#	INSPECTOR(S): TM	SGS FILE 108156
CARGO SULFIDIC CAUSTIC		CLIENT CES ENVIRONMENTAL SERVIC	REF

CCC			SHORI	SUREMENTS	S (STATIC)				
000	· · · · · · · · · · · · · · · · · · ·	∑	AT LOADING	□ AT	TRANSFER	AT DISCHARGE	Oil Gas & Chemicals Se	ervices Division.	
SHORETANK #	182	REF HEI	GHT:	G	AUGE UNITS	Y FT-IN T FT T	MM U OTHER:		
		ME: 0:40			ME: 14:50		OPEN	CLOSE	
OBS. REF. HEIGHT	NNAGE	WATER INNAGE OBS. REF. HEIGHT		§ INNAGE WATER INNAGE		INSPECTOR:	TM	TM	
20-4-1/2	17-10-7/8	NIL	14-10-3/8	12-4-3/4	NIL	WITNESS:			
						API @ 60ºF/ DENS. @ 15º			
						SOURCE	TERMINAL	TERMINAL	
						AMBIENT AIR TEMP			
						TEMP OF TANK SHELL	79	7 9	
						AVG TEMP (0.1°F)	90.4	90.2	
S MEASUREMENT	S TAKEN IN ACCC	RDANCE WITH	:	INNAGE: API MPI	/IS 3.1A.9.2	AVG INNAGE	17-10-7/8	12-4-3/4	
¤ FREE WATER D	ETERMINED IN AC	CORDANCE WITH	•	API MPMS 3.1A.1	0.1	AVG WATER INNAGE	NIL	NIL	
# TEMPERATURE	S TAKEN IN ACCO	RDANCE WITH	:	API MPMS 7.6.4		VOLUME UNITS 🗹 BBI	S M3 OTHER		
^ VOLUME CALC	JLATED IN ACCOR	DANCE WITH	:	ASTM D 1250-04		TABLE VOLUME **	5732.42	3955.29	
PROD TEMP	90.4 x 0.8	875 = 79.1000	PROD TEMP	90.2 x 0	.875 = 78.9250	FREE WATER	0.00	0.00	
(+) AIR TEMP	x 0.	125 =	(+) AIR TEMP	x 0	.125 =	OBSERVED VOLUME	5732.42	3955.29	
TANK SHELLTEM	PERATURE:	= 79	TANK SHELL TE	MPERATURE	= 79	TANK SHELL CORR.	1.00024	1.00024	
ROOF CORRECTI	ON INFO - STANDA	ARD API:	•			OBSERVED VOLUME	5733.80	3956.24	
CRITICAL ZONE F	RANGE FROM	то	ROOF I	LEG 🗌 HIGH	l D LOW	ROOF CORRECTION	0.00	0.00	
		OF	'EN	CL	OSE	GROSS OBSERVED VOL.	5733.80	3956.24	
AVG INN IN CRITI	CAL ZONE	YES	✓ NO	YES	✓ NO	^VCF TABLE : (t)	1.00000	1.00000	
SIDEGAUGE/ATG		18-0-1/4	/ 18-0-1/8	11-9-1/4	/ 11-8-7/8	GROSS STANDARD VOL.	5733.80	3956.24	
TEMPERATURES	°2F	# PROBE	MERCURY	# PROBE MERCURY		DIFFERENCE 1777.56			
* ACTION TAKEN	l:	✔ U 90.4 ✔ M	90.4 🗹 L 90.4	🗹 U 90.2 🗌 N	A 🗆 L	CUSTODY TRANSFER SAMPLE:			
		ΠM		□ M		API @ 60ºF/ DE			
		OTHER*		OTHER*		S & W % VOL.			
SIDETEMP/REMO	OTE .	9:	2.4		92	S & W VOLUME			
PROBE WAS CHECKED PRIOR TO USE YES			NO	NOT USED		NET STANDARD VOLUME			
SAMPLING		ום ט 🗆 ו	N 🗆 L	Du D	M DL	WCF TABLE : (t)			
* ACTION TAKEN	1 :	□т □।	3 🗆 R	□т □	B 🗆 R	GROSS STANDARD WT.			
		OTHER*		OTHER*		NET STANDARD WEIGHT			
AT ULLAGES :						WEIGHT UNITS LT	☐ MT ☐ LBS ☐	OTHER :	
CAL DATE: 10	/6/2000	Ref TSh Temp :	60	OP TEMP :		** IS TABLE VOLUME IN . BBLS . M3 . OTHER:			

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PORT /	TERMINAL:	Lake Charles,	La	/ Citg	0		OFFICE: LAKE	CHARLES,	LA	TEL: (337)	625-1455		
VESSE	L: CCL 7			VOY :	#:		INSPECTOR(S): TM SGS FILE: 108156						
DATE:	8/3/2	008 CARGO:	SULFIDIC C	AUSTIC			CLIENT: CES	ENVIRONME	NTAL SERV	IC REF:			
91	2C			VES	SEL MEASUF	REMENT	SYSTEM	OPEN	CLOSE / A	ESTRICTED			
<u> </u>	10				ARRIVAL	EPARTURE			Oil Gas &	Chemicals Se	ervices Division.		
		DADING			AT DISCHAR		<u> </u>	O TANKS		ST TANKS		NOTHER CARG	0
UNITS		FT-IN	∏ FT		MM LJ	OTHER:				U.S. GALS		OTHER:	
TANK #	REFERENCE HEIGHT	OBSERVED REFERENCE HEIGHT	¤ INNAGE	WATER	TEMPERATURES °F § PROBE	AVG. TEMP	CORRECTED MEASURE	TOTAL OBSERVED VOLUME	FREE WATER	GROSS OBSERVED VOLUME	^ V.C.F.	GROSS STANDARD VOLUME	
1C	15-7-0/0	15-8-1/4	11-2-1/4	NIL	91.8	91.8	11-2-1/4	2875.14	0.00	2875.14			
2C	15-7-0/0	15-8-1/4	9-8-0/0	NIL	91.5	91.5	9-8-0/0	2531.33	0.00	2531.33			
3C	15-7-0/0	15-8-1/4	10-0-3/4	NIL	92.1	92.1	10-0-3/4	2632.81	0.00	2632.81			-
													\mp
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	<u> </u>					<u> </u>							
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		-		-	<u> </u>	 			 				+
	 	 	 	 	 		 		 	-	_	+	+
PROBE	WAS CHECK	ED PRIOR TO US	E 🗹 YI	S N	IO NOT US	L ED	TOTALS	8039.28	0.00	8039.28			+
GAUG	E LOCATION	: STANE			Expansion Trunk		CORRECT	ED MEASURE	: w = Wedge	corrected, t = 1	ــــا rim corrected	l ————————————————————————————————————	_
		OTHE	R :				API @ 60F / DE				URCE :		
* GAL	IGE POSITIO	N: C = Center	of tank F = F	orward of Ce	nter A = Aft of Cente	er	S&W-VOL%	6 :		SC	URCE :		
SAMP	LES DRAWN	: 2X1QT PE	R TANK			***************************************	S&W-VOL:			WCF TAI	BLE : (t)	
							NET STANDAR	RD VOLUME					
BALL	AST TANKS I	PERMANENT	YES	IF 🗀 NO	(SEE F-15 BALLAST	TANKS)	GROSS STAN	DARD WEIGH	Τ				
SEAS	UCTION SEA	L#'S:					NET STANDA	RD WEIGHT					
DRAF	T: FWD	(P) 9-6	AFT (F	9-6	LIST:	º (P) / (S	TOTAL CALC.	VOL. DEPAR	TURE				
		(S) 9-6	(9	9-6			REMARKS:						
SE	A CONDITIO	N: CALM IN I	PORT				^ VOLUME CALC						
				TIM MC DC			¤ LIQUID LEVEL				API MPMS	17.2.5.2	
1	VE	SSEL'S STAFF		1	INSPECTOR		STEMPERATURE	DETERMINATI	ON IN ACCORD	ANCE WITH	API MPMS	17253	

API MPMS 17.2.5.3

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F-16												Page	: 1 of 1	
PORT / 1	TERMINAL: La	ake Charles, I	La		/ Citgo			OFFICE: LA	KE CHARLES, L	Α	TEL: (33	37) 625-1455		
VESSEL	: CCL 7				VOY#:			INSPECTOR(S	INSPECTOR(S): TM SGS FILE: 108156					
DATE:	8/3/20	08 CARGO: S	SUL	FIDIC CAUST				CLIENT: CE	S ENVIRONMEN	VTAL SERV	IC REF:			
SGS OBQ F								SUREMENT IS NOT TAKEN		Oil Gas &	Chemicals Servic	es Division.		
UNITS :	 F	T-IN		FT	MM	☐ o	THER:		UNITS : 🗹 B	BLS	U.S. GALS	M³ [] C	THER:	
TANK #	REFERENCE HEIGHT	OBSERVED REFERENC E HEIGHT	*	OBSERVED INNAGE	FREE WATER INNAGE	NON-LIQUID INNAGE	AVG. TEMP	CORRECTED MEASURE	TOTAL OBSERVED VOLUME	^ V.C.F.	FREE WATER VOLUME	NON-LIQUID	LIQUID VOLUME	
1C	15-7-0/0	15-8-1/4		0-0-0/0	NIL	NIL	60	0-0-0/0	0.00		0.00	0.00	0.00	
2C	15-7-0/0	15-8-1/4		0-0-0/0	NIL	NIL	60	0-0-0/0	0.00		0.00	0.00	0.00	
3C	15-7-0/0	15-8-1/4		0-0-0/0	NIL	NIL	60	0-0-0/0	0.00		0.00	0.00	0.00	
[^ VC	DLUME CALCUI	LATED IN ACCO	RDA	NCE WITH	ASTM D 12	250-04		TOTALS	0.00		0.00	0.00	0.00	
On t	ehalf of our clie	ent(s) we would	like t	o bring to your a	ttention that in o	our opinion :	······································	d = dip, u =	Ullage; corrected	d measure,	w = Wedge c	orrected, t = Trim	corrected	
				JID MATERI I-LIQUID M					GAUGE LOCATION : STANDPIPE G.H. on Expansion trunk OTHER :					
rem	ains on board y	our vessel. To t				I		* GAUGE POSITION: C = Center of tank F = Forward of Center A = Aft of Center					f Center	
rela	tionships, this r	naterial belongs	to o	ur client(s) and s	hould be pumpe			OBQ SAM	IPLED	YES 🗸	NO IF NO	REASON		
In case you are unable to do so please indicate your reasons below. In any event, we have to advise our client(s) of the above and reserve his right to seek														
Stat	ements with re	he undelivered a gards to flowabil	lity a		ory services exp	ress personal		OBQ TES	TED	YES 🗹	NO IF NO	REASON		
opir	nions without re	sponsibility for	SGS.				·	ROB SAN	API ED	YES 🗸	NO IF NO	REASON		
 								100 344	(1) L_J		, NO IFNO	TILAGUIT		
								DRAFT:	FWD (P) 1-6	······································	AFT (P) 2-0	LIS.	r: ⁹ (P)/(S)	
					TIM N	C DONALD			(S) 1-6		(S) 2-0		(,), (5)	

SEA CONDITION: CALM IN PORT

INSPECTOR

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VESSEL'S STAFF



Inspection Report (LOADING)

Subject : CCL 26 Product : SPENT CAUSTIC

Date:

10/24/2008

Our ref.: 118785

Client ref.: TBD

Location: LAKE CHARLES / CITGO

CES ENVIRONMENTAL SERVICES

Summary of Figures	Bbis @ 60°F	Galions @ 60°F	Long Tons	Metric Tonnes	Pounds
Shore Measurements (SPENT CAUSTIC					
Total Shore figures delivered GSV	5,543.33	232,819.86			
Shoretanks no(s): TANK 182		i			
Vessel's Measurements					
Vessel's figures before loading (OBQ) Free Water	0.00				
Vessel's figures before loading (OBQ) Liquid	10.03				
Vessel's figures before loading (OBQ) Non Liquid	0.00				
Vessel's figures before loading (OBQ) Total	10.03	421.26			
Vessel's figures TCV on board after loading	5,826.16	244,698.72			
Vessel's figures TCV loaded	5,816.13	244,277.46			
Vessel's figures Free Water loaded	0.00	0.00			
Vessel's figures GSV loaded	5,816.13	244,277.46			

Shore Measurements	(PHENOLIC CAUSTIC)
---------------------------	--------------------

Total Shore figures delivered	GSV	2,406.02	101,052.84
Average API Gravity @ 60°F	NSV		
Shoretanks no(s): TANK 185			

Vessel's Measurements

Vessel's figures before loading (OBQ) Free \	Water	0.00	
Vessel's figures before loading (OBQ)	Liquid	0.00	
Vessel's figures before loading (OBQ) Non L	Liquid	0.00	
Vessel's figures before loading (OBQ)	Total	0.00	0.00
Vessel's figures TCV on board after loading		2,430.26	102,070.92
Vessel's figures TCV loaded		2,430.26	102,070.92
Vessel's figures Free Water loaded		0.00	0.00
Vessel's figures GSV loaded		2,430.26	102,070.92

Samples

SHORE TANK - 2X1 QUART RUNNING

BARGE - 2X1 QUART RUNNING PER CARGO TANK

Quality NONE

SGS North America Inc.

Oil, Gas & Chemicals Services

4701 E. NAPOLEON SULPHUR, LA 70663 t((337) 625-1455) f((337) 625-1721) www.sgs.com

Member of the SGS Group (Société Générale de Surveillance)



Time Log

10/23/2008	1105	INSPECTOR NOTIFIED
	1205	INSPECTOR ARRIVED
	1210	BARGE ARRIVED
	1220	BARGE DOCKED AT C-SLIP
	1225	COMMENCED OBQ INSPECTION
	1235	COMPLETED OBQ INSPECTION
	1305	STK 182 GAUGED, SAMPLED, TEMPED OPEN
	1320	STK 185 GAUGED, SAMPLED, TEMPED OPEN
	1625	CARGO HOSE CONNECTED
	1650	COMMENCED LOADING SULFIDIC CAUSTIC FROM STK 182
10/24/2008	1130	COMPLETED LOADING SULFIDIC CAUSTIC / TANKERMAN STOPPED LOAD
	1140	COMMENCED LOADING PHENOLIC CAUSTIC FROM STK 185
	1320	COMPLETED LOADING / TANKERMAN STOPPED LOAD
	1345	INSPECTOR NOTIFIED
	1400	INSPECTOR ARRIVED / HOSE DISCONNECTED
	1425	STK 185 GAUGED AND TEMPED CLOSED
	1445	STK 182 GAUGED AND TEMPED CLOSED
	1500	COMMENCED CARGO INSPECTION
	1545	COMPLETED CARGO INSPECTION
	1630	CALCULATIONS COMPLETED
	1700	INSPECTOR DEPARTED

BRETT DAIGLE

for SGS Oil, Gas & Chemicals Services

10/28/2008

Shore volume calculated in accordance with:

Vessel volume calculated in accordance with:

Procedures as per applicable MPMS Chapter 3.1a, 7, 8.1 or 8.2, 12.1 or 12.2, 17.1, 17.2, 17.4.

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FIRCC REV. January 2007

thise i of PORT/TERMINAL: LAKE CHARLE / CITGO OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455 VESSEL: CCL 26 VOY #: INSPECTOR(S): BELLON DATE: 10/23/2008 SGS FILE: 118785 CARGO: SPENT CAUSTIC **CLIENT:** CES Environmental REF: TBD

SGS

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TIME LOG

Oli Gas & Chemicals Services Division.

	<u>uo</u>	·										UII	UAS Q. L			ces Divis	SION.
8	Z AT LO	ADING						AT TRA	NSFER					☐ AT	DISCHA	RGE	
		YEAR	2008	/ MO	NTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DE
Date	Hour	<u> </u>															
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0/23	12:35			ETED O						***							
0/23	13:05			GAUGE													
0/23	13:20			GAUGE				PED OF	EN			 .					
0/23	16:25			HOSE C													
0/23	16:50			NCED L													
0/24	11:30			TED LC								PPED L	OAD				
0/24	11:40	1		VCED L							185						
0/24	13:20	<u> </u>		TED LO			KERM	AN STC	PPED	LOAD						· · · · · · · · · · · · · · · · · · ·	
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0/24	14:00			OR ARI					CLED								
0/24	14:25			GAUGE													
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PORT / TERMINAL: LAKE CHARLE / CITGO	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 26 VOY #:	INSPECTOR(S): BELLON
DATE: 10/23/2008	SGS FILE: 118785
CARGO: SULFIDIC CAUSTIC	CLIENT: CES Environmental REF: TBD

SUS

VOYAGE ANALYSIS REPORT

<u> </u>					Oil G	as & Chemicals S	iervices Division.
✓ LOADING	V-V 1	TRANSFER	DISCHARGE	SUMMAR	Y	Type of Voya	ge C/P DATE
					-	Multi-cargo)
Load Port/Terminal/Berth		ARRIVED	SAILED	Discharge Por	t/Terminal/Berth	ARRIVED	SAILED
LAKE CHARLES / CITGO	/ C	10/23/2008	10/24/2008				
VOLUME UNITS		SUPPLIER	RECEIVER	VCF SHORE LOA	VCF SHORE DIS	CH VCF VESSEL LO	AD /CF VESSEL DISC
☑ BBLS 🗌 GALS 🗌 M³	<u> </u>	CITGO	CES				
DESCRIPTION API		TCV	FW	GSV	S&W	NSV	Reference
I. COMPARISON OF SHORE	E QUA	NTITIES IN CUST	ODY TRANSFER				
Bill of Lading 1.		5543.33	0.00	5543.33			(1)
Outturn 2.							(2)
Diff. 3.							(3)=(2) - (1)
Diff. % 4.							(4) = (3) / (1) x 100
Recaic. B/L 5.	(a)		Recalculate	f B/L and O/T use	different tables.		(5) (a) Vol. Diff.
II. VESSEL/SHORE QUANTI	TIES A	T()LOAD	PORT(S)				
Vessel Sailing	A.	5826.16	0.00	2430.26	LIQUID	NON-LIQUID	(A)
OBQ (All)	В.	10.03	0.00	10.03			(8)
Loaded	C.	5816.13	0.00	2420.23			(C)=(A) - (B)
Difference	D.	272.80	0.00	272.80		1	(D)=(C)-[(1) or (5)]
Difference %	E.	4.92%		4.92%		1	(E)=(D)/[(1)or(5)]×100
Load Vessel Ratio	F.	1.0492		 			(F)=(C)/[(1)or(5)]
oad VEF	G.	1.00000		†			(G)
Theoretical Shore	Н.	5816.13		†	 		(H)=(C) / (G)
Theoretical Shore Diff.	- ;	272.80		 	 	 	(I)=(H) - [(1) of (5)]
Theoretical Shore Diff. %	J.	4.92%			 		(J)=(I)/[(1) or (5)]x100
II. VESSEL/SHORE QUANTIT	TIES AT	r / Disch	ARGE PORT(S)	<u> </u>	L	<u> </u>	1
/essei Arrival	K.	, , , , , , , , ,		T	LIQUID	NON-LIQUID	(K)
ROB (All)	L.					†	BL)
Discharged	M.						[(M) = (K) - (L)
Difference	N.			<u> </u>			(N) = (2) - (M)
Difference %	0.						(O) = (N) / (2) x 100
Discharge Vessel Ratio	Ρ.		<u> </u>				(P) = (M)/(2)
Pischarge VEF	Q.						(Q)
heoretical Shore	R.		····				(R) = (M)/(Q)
heoretical Shore Diff.	S.						(S) = (2) - (R)
heoretical Shore Diff. %	T.						$(T) = (S) / (2) \times 100$
							(1) = (0) / (2) 2 100
II. VESSEL/'S COMPARISON ransit Difference	OF LO	ADING AND DISC	HARGE PORT(S) VCF TABLE M	IUST BE CONSIST	ENT	(U) = (K) - (A)
Difference %	V.				LIQUID	NON-LIQUID	(V) = (U) / (A) x 100
					LIGOID	NON-LIGOID	
BQ/ROB Difference	W.						(W) = (L) - (B)
D . 701/ C/CC		CV Difference (3) - C		-	8&W(1)/GSV(1)]X100		&W(2)/GSV(2)]X100
DJ TCV DIFF : (Quanti	ty)/ 0.00	أحسب	S&W at Load Por	τ:	S&W at Disch Po	π:
omments :				· · · · · · · · · · · · · · · · · · ·	······································		出
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repared by: BELLON			ECTOR	Company:	SGS	Date Completed :	10/24/2598
pyright SGS-OG&C June 1997 - R	lev Oct 2	2003		Services ren	dered according to p	ublished General Te	rms and Conditions

PORT / TERMINAL: LAKE CHARL	E / CITO	3O	OFFICE LAK	E CHARLES, L	A TEL (33	7) 625-1455
VESSEL CCL 26	VOY#		INSPECTOR(S):			<u> </u>
DATE 10/23/2008			SGS FILE 11	8785		
CARGO SULFIDIC CAUSTIC			CLIENT CES	Environmental	REF TBE)
SGS	(SHORE QUAI	NTITY SUMM	ARY	i Gas & Chemicals	Services Divisio
AT LOADING AT TRANS	SFER 🗌	AT DISCHARGE	✓ SHORE	TANK (STATIC)	□ ME	TER (DYNAMIC)
CUSTODY TRANSFER SAMPLE						
☐ API @ 60°F:		R.D. 60°F/60°F		Cu Dens	sity Lbs/Gal @	
S&W % VOL:						
SOURCE OF ANALYTICAL DATA:						
	UNITS	TANK 182				
TOTAL CALCULATED VOLUME	BBLS	5543.33				
REE WATER	BBLS	0.00				
ROSS STANDARD VOLUME	BBLS	5543.33				
& W VOLUME	BBLS					
NET) STANDARD VOLUME	BBLS					
VCF TABLE (1)						
ROSS STANDARD WEIGHT						
& W WEIGHT						
NET) STANDARD WEIGHT						
			<u>.</u>		<u></u>	- L
	UNITS			SHORELINE	TOTAL E	ELIVERED
OTAL CALCULATED VOLUME	BBLS				55	43.33
REE WATER	BBLS				1 0	0.00
ROSS STANDARD VOLUME	BBLS				554	43.33
& W VOLUME	BBLS					
IET) STANDARD VOLUME	BBLS			·		
					GSV NSV	∷SV @
ROSS STANDARD WEIGHT						
& W WEIGHT						
				 	 	

STOWAGE	D/B VESSEL: 1-2C					
			B/L DATE	:	······································	
REMARKS	QUANTITY CONFIRMED	QUANTITY CHANGES	YES	NO	IF YES STATE REASON	
with	of					
with	of					X
Date _	Time					Ŭ H
opyright SGS-C	OG&C June 1997 - Rev Oct 2003	Ser	vices rendered a	ccording to	published General Terms and C	Control

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PORT / TERMINAL: LAKE CH)	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455							
VESSEL: CCL 26	VOY #:			INSPECTOR(S): BELLON						
DATE: 10/23/2008 CARGO: SULFIDIC CAUSTIC			SGS FILE: 118		REF: tbd					
COC				·	TIEF. IDG					
<u>-909</u>	V	ESSEL QUA	ANTITY SUMI	WARY OILG	ias & Chemicals Se	ervices Division.				
AT LOADING AT TI	RANSFER A	T DISCHARGE	CRUDE O	IL	☐ PROD	DUCTS				
API @ 60°F:	المارية	R.D. 60°F/60°F		Densit	y Lbs/Gal @					
S&W % VOL:										
SOURCE OF ANALYTICAL DAT	A:									
	v	OLUME	WCF		WEIGHT					
	BBLS	U.S. GALS	/ <i>(</i> t)	POUNDS	LONG TONS	METRIC TONS				
VESSEL'S QUANTITIES	V.E.F. CO	ORRECTED:	YES .	NO	VEF:					
TOTAL CALCULATED VOL	5826.16	244698.72	2							
FREE WATER	0.00	0.00								
GROSS STANDARD VOLUME	5826.16	244698.72	2							
S & W VOLUME										
NET) STANDARD VOLUME										
У ово			ROB							
IQUID MATERIAL	10.03	421.26								
ION-LIQUID MATERIAL	0.00	0.00								
REE WATER	0.00	0.00								
OTAL	10.03	421.26								
LOADED QUANTITI	ES		DISCHARGED QUAN	ITITIES						
OTAL CALCULATED VOL	5816.13	244277.46								
REE WATER	0.00	0.00								
ROSS STANDARD VOLUME	5816.13	244277.46								
& W VOLUME	······································									
ET) STANDARD VOLUME										
RE SLOPS INCLUDED IN CALC	ULATIONS	YES	✓: NO	NO SI	OPS ON BOARD					
FOWAGE O/B VESSEL: 1-2C										
MADVC						——— #				
MARKS:						<u>*</u>				

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PORT / TERMINAL: LAKE CHARLES	/ CITGO	OFFICE LAKE CHARLES, LA	TEL (337) 625-1455	HE H
VESSEL CCL 26	VOY#	INSPECTOR(S): BELLON	SGS FILE 118785	(ISD)
CARGO SULFIDIC CAUSTIC		CLIENT CES Environmental	REF TBD	

CARGO SULFIDI	C CAUSTIC				CLIENT CES E	nvironmental	REF TBD	
CCC			SHORE TAN	K MEASURI	EMENTS (ST.	ATIC) - CHEMICALS		
<u> </u>			✓ AT LOAD	NG	AT TRANSFER	AT DISCHARG	E Oil Gas & Chemical	s Services Division.
SHORETANK #	182	REF HEI	GHT	G.	AUGE UNITS	FT-IN FT	MM . OTHER:	
	E: 10/23/2008 TI			E: 10/24/2008 TI	ME: 14:45		OPEN	CLOSE
OBS. REF. HEIGHT	§ INNAGE	#WATER INNAGE	OBS. REF. HEIGHT	§ INNAGE	#WATER INNAGE	INSPECTOR:	BELLON	J DYKES
	26-2-1/4	24-3-1/2		9-0	7-1-1/4	WITNESS:		
						API @ 60°F		
						REL DENS 60°F/60°F		·
						DENSIT Lb/Gal @		
						SOURCE:		
						☐ DENS CORR °F/°C		
§ MEASUREMENT	S TAKEN IN ACCO	PROANCE WITH	:	INNAGE: API MPN	IS 3.1A.9.2	^ VCF TABLE		
¤ FREE WATER D	ETERMINED IN AC	CORDANCE WITH	:	API MPMS 3.1A.10	0.1	AMBIENT AIR TEMP	74.0	80.0
# TEMPERATURE	S TAKEN IN ACCO	RDANCE WITH	:	API MPMS 7.6.4		TEMP OF TANK SHELL	78	78
^ VOLUME CALC	JLATED IN ACCOR	RDANCE WITH	:			SOURCE SGS	CLIENT TABLE:	
PROD TEMP	79.0 x 0.8	75 = 69.1250	PROD TEMP	78.2 x 0.8		(79.0	78.0
(+) AIR TEMP	74.0 x 0.1	25 = 9.2500	(+) AIR TEMP	80.0 x 0.1	25 = 10.0000	AVG INNAGE	26-2-1/4	9-0
TANK SHELL TEI	MPERATURE	₌ 78	TANK SHELL TE	MPERATURE	, = 78	AVG WATER INNAGE	24-3-1/2	7-1-1/4
ROOF CORRECTI	ON INFO - STANDA	ARD API:				VOLUME UNITS M BBL	S M3 OTHER	:
CRITICAL ZONE	RANGE FROM	то_	ROOF	EG 🗌 HIGH	l 🗹 LOW	TABLE VOLUME **	8403.51	2860.18
		Of	PEN	CL	OSE	FREE WATER	0.00	0.00
AVG INN/ULL IN	CRITICAL ZON	YES	☑ NO	YES	☑ NO	OBSERVED VOLUME	8403.51	2860.18
SIDEGAUGE			2-1/8	9-(0-1/8	TANK SHELL CORR.	1.00000	1.00000
TEMPERATURE	S ºF	# PROBE	MERCURY	# PROBE	MERCURY	OBSERVED VOLUME	8403.51	2860.18
· ACTION TAKEN	l:	☑ U 79.0 ☑ M	79.0 🗹 L 79.0	□u □ N		ROOF CORRECTION	0.00	0.00
		M		☑ M 78.2		PRODUCT VOLUME	8403.51	2860.18
		OTHER*		OTHER*		V.C.F.	1.00000	1.00000
SIDETEMP/REM	OTE					VOLUME @ 60	8403.51	2860.18
PROBE WAS CHECKED PRIOR TO USE Y YES NO NO		NOT USED		DIFFERENCE	554	3.33		
SAMPLING		□ U	W L	ט □ ו	M 🗆 L	DENSITY Lb/Gal @ 60	0.00000	0.00000
• ACTION TAKE	1:	Πτ Π	B 🗹 R	□ τ □ ι	B R	WEIGHT ()	0.000	0.000
		OTHER*		OTHER*		DIFFERENCE	0.0	000
AT ULLAGES :						** IS TABLE VOLUME IN	BBLS M3	OTHER:
CAL DATE:		Ref TSh Temp:	60	OP TEMP:				
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PORT / TERMINAL: LAKE CHARLES / CITGO							OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455						ECKE
VESSEL: CCL 26 VOY #:						INSPECTOR(S): BELLON SGS FILE: 118785							
DATE: 0/23/2008 CARGO: SULFIDIC CAUSTIC CLIENT: CES Environmental REF: TBD													
SG	S			VESS	EL MEASUREI AR	MENT S	· · · · ·	EMICALS PARTURE) Den	CLOSE / RES		Ices Division.	
,	/ AT LO	DADING	AT TRANS	HIPMENT	AT DISCHARG	ìE	CARGO		BALLA	ST TANKS	□ NO	NOTHER CARG	0
UNITS:		FT-IN	. ! FT		MM 🔲	OTHER:				U.S. GALS		OTHER:	
TANK #	REFE R ENC E HEIGHT	OBSERVED REFERENCE HEIGHT	¤ ULLAGE	WATER INNAGE	TEMPERATURE °F § PROBE	AVG. TEMP	CORRECTED MEASURE	TOTAL VOLUME	FREE WATER	PRODUCT / VOLUME	V.C.F.	VOLUME & Obs*F	
1	16-2 1/2	16-2-1/2	4-4-1/2	0-0	76.2	76.0	11-10	2843.13	0.00	2843.13	1.00000	2843.13	C
2	16-2 1/2	16-2-1/2	5-4-1/2	0-0	76.4	76.0	10-10	2983.03	0.00	2983.03	1.00000	2983.03	C
						l							
							I I						
								<u> </u>					
													111
								1					
											1		11
PROBE	WAS CHE	CKED PRIOR TO	US V Y	ES .	NO NOT US	ED .	TOTALS	5826.16	0.00	5826.16	1	5826.16	1 -
GAUGE	LOCATION	✓ STAND	PIPE	G.H. or	Expansion trun			L	VE	SSEL QUANTITIE	 S		
	· · · · · · · · · · · · · · · · · · ·	OTHER:	·····	·····			BARRELS	5826.16	at ºF	POUNDS			
' GAUG	E POSITIO	N: C = Center	of tank F = F	orward of C	enter A = Aft of Cente	r	U.S. GAL.						
^ VOLUM	E CALCULA	TED IN ACCORDA	NCE WITH	T			M ³	926.286	at ºF	KILOGRAMS			
= LIQUID	LEVEL GAUG	SES IN ACCORDA	NCE WITH		API MPMS 17.2.6.1.	2				METRIC TON			
§ TEMPER	RATURE DET	ERMINATION IN	ACCORDANCE	were .	API MPMS 17.2.6.1.		☐ API @ 60)F	COTE * 100	0000	I		
UPON	COMPLETIC	ON OF DISCHA	RGE ALL CAF	RGO TANKS	WERE FOUND TO BE			D RELATIVE					
WELL (DRAINED	YES	NO (S	EE F-20 DEF	PARTURE)		soul	RCE:	sgs 🗍 ci	LIENT OTHE	R (SPECIFY	·)	
SAMPL	ES DRAWN	1: 2X1 QT RI	JNNING				STANDAR	DENSITY		Galat ºF/º		-	
DRAFT	: FWD	(P) 9-0	AFT (I	P) 9-6	LIST:		DENSITY			Gal at °F/°			
		(S) 9-0		S) 9-6									
SEA		DN: CALMINI		· · · · · · · · · · · · · · · · · · ·			DENSITY	CORRECTION	NPER ºF/º(7	T		
1-					J DYKES		^v.c.f. TA						
					INSPECTOR	<u></u>	SOURCE: SGS CLIENT OTHER (SPECIFY)						

F.	2	A	

-3A	r right to the	
PORT / TERMINAL: LAKE CHARLE / CITGO	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455	
VESSEL: CCL 26 VOY #:	INSPECTOR(S): BELLON	
DATE: 10/23/2008	SGS FILE: 118785	_
CARGO: PHENOLIC CAUSTIC	CLIENT: CES Environmental REF: TBD	

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VOYAGE ANALYSIS REPORT

909		·			Oli G	as & Chemicals S	ervices Divisio
✓ LOADING	V.V.	TRANSFER [DISCHARGE	SUMMARY	,	Type of Voya	ge C/P D/
E COADING	ECADING C. V-V TRANSFER			OOMMITTEE		Multi-cargo)
Load Port/Terminal/Berth		ARRIVED	SAILED	Discharge Port	/Terminal/Berth	ARRIVED	SAILED
LAKE CHARLES / CITGO)/C	10/23/2008	10/24/2008				
VOLUME UNITS		SUPPLIER	RECEIVER	VCF SHORE LOA	D VCF SHORE DIS	CH VCF VESSEL LO	AD /CF VESSEL I
♥ BBLS 🗆 GALS 🗀 M³	I L	CITGO	CES			ļ	
DESCRIPTION API/DE	NSITY	TCV	FW	GSV	S&W	NSV	Referenc
I. COMPARISON OF SHO	RE QUA						
Bill of Lading 1.		2406.02	0.00	2406.02			(1)
Outturn 2.							(2)
DIff. 3.							(3)∞(2) - (1)
Diff. % 4.							$(4) = (3)/(1) \times 10$
Recaic. B/L 5.	(a)		Recalculate if	B/L and O/T use	different tables.		(5) (a) Vol. D
II. VESSEL/SHORE QUAN	TITIES A		PORT(S)				
Vessel Salling	A.	2430.26	0.00	2430.26	LIQUID	NON-LIQUID	(A)
OBQ (Ali)	В.	0.00	0.00	0.00	0.00	0.00	(B)
Loaded	C.	2430.26	0.00	2430.26			(C)=(A) - (B)
Difference	D.	24.24	0.00				(D)=(C)-{(1) or (5)
Difference %	E.	1.01%					(E)=(D)/[(1)or(5)]x
oad Vessei Ratio	F.	1.0101					(F)=(C)/[(1)or(5)]
oad VEF	G.	1.00000					(G)
Theoretical Shore	H.	2430.26					(H)=(C) / (G)
Theoretical Shore Diff.	1.	24.24					(l)=(H) - [(1) or (5)]
Theoretical Shore Diff. %	J.	1.01%					(J)≈(IV[(1) or (5)]x
II. VESSEL/SHORE QUANT	TITIES A	T() DISCH	ARGE PORT(S)				
essel Arrival	K.				LIQUID	NON-LIQUID	(K)
ROB (Ali)	L.						L)
Discharged	M.						(M) = (K) · (L)
Difference	N.						(N) = (2) - (M)
Difference %	0.					F-	$(0) = (N)/(2) \times 100$
ischarge Vessel Ratio	Р.						(P) = (M)/(2)
lischarge VEF	Q.					T	(Q)
heoretical Shore	R.						(R) = (M) / (Q)
heoretical Shore Diff.	S.						(S) = (2) - (A)
heoretical Shore Diff. %	T.						$(T) = (S)/(2) \times 100$
I. VESSEL/'S COMPARISO	N OF LC	ADING AND DISC	HARGE PORT(S	VCF TABLE M	UST BE CONSIST	ENT	
ransit Difference	U.						(U) = (K) - (A)
Difference %	V.				LIQUID	NON-LIQUID	(V) = (U) / (A) x 100
BQ/ROB Difference	w.						(W) ≈ (L) - (B)
DJ TCV DIFF :	(Quant	CV Difference (3) - 0 ity) / 0.00		[S S&W at Load Port	&W(1)/GSV(1)]X100	[] S&W at Disch Po	S&W(2)/GSV(2)]X1 ort :
omments :							0
							<u> </u>
repared by :	T	itie :	į.	Company :		Date Completed:	\overline{O}

PORT / TERMINAL: LAKE CHARL	E / CITO	GO	OFFICE	LAKE CHAR	ILES, L	A TEL (337) 625-1455
VESSEL CCL 26	VOY#		INSPECTO	R(S): BELL	ON.		
DATE 10/23/2008			SGS FILE	118785			
CARGO PHENOLIC CAUSTIC			CLIENT	CES Environ	mental	REF TBD	
SGS		SHORE QUA	NTITY SU	MMARY	Oil	Gas & Chemicals	Services Divisio
AT LOADING AT THAN	ISFER 🗆	AT DISCHARGE	☑ sho	ORE TANK (ST	TATIC)	□ мет	ER (DYNAMIC)
CUSTODY TRANSFER SAMPLE							
L API @ 60°F:		R.D. 60°F/60°F		ز. ا	Dens	ity Lbs/Gal @	
S&W % VOL:							
SOURCE OF ANALYTICAL DATA:							
	UNITS	TANK 185					
TOTAL CALCULATED VOLUME	1	2406.02					
FREE WATER	 	0.00				 	+
GROSS STANDARD VOLUME	+	2406.02		_		 	
S & W VOLUME	+				<u></u>	 	
(NET) STANDARD VOLUME	+					<u> </u>	
	├ ──					 	_
WCF TABLE (1)						<u> </u>	
GROSS STANDARD WEIGHT							
S & W WEIGHT							
(NET) STANDARD WEIGHT							
	<u> </u>	L				<u> </u>	
	UNITS		· · · · · · · · · · · · · · · · · · ·	SHORE	LINE	TOTAL D	ELIVERED
TOTAL CALCULATED VOLUME	 -					240	06.02
FREE WATER	 -			-		0	.00
GROSS STANDARD VOLUME	 					<u> </u>	06.02
	<u> </u>					240	
S & W VOLUME			<u> </u>				
NET) STANDARD VOLUME							
						🗷 GSV 📋 NSV	SV @
GROSS STANDARD WEIGHT			 	<u> </u>			
& W WEIGHT							···
NET) STANDARD WEIGHT				+			
TOWACE OID VEGGE!			, <u>.</u>				
TOWAGE O/B VESSEL: 3C							· · · · · · · · · · · · · · · · · · ·
				B/L DATE:			
EMARKS QUANTITY CONFIRM	ED	QUANTITY CH	ANGES	YES	NO	IF YES STATE F	REASON
with of							<u></u>
with of							<u>Ψ</u>
Date Time							\sim

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PORT / TERMINAL: LAKE CH	IARLE / CITGO		OFFICE: L	KE CH	ARLES, LA	TEL: (337)	625-1455
VESSEL: CCL 26	VOY #:		INSPECTOR(<u> </u>	LLON		
DATE: 10/23/2008			SGS FILE:				
CARGO: PHENOLIC CAUSTI			CLIENT: CE			REF: tbd	
<u>SGS</u>	V	ESSEL QU	ANTITY SU	MMAI	AA OII (Gas & Chemicals So	ervices Division.
AT LOADING ATT	RANSFER A	T DISCHARGE	CRUD	E OIL		☐ PROD	DUCTS
API @ 60°F:	ŭ.	R.D. 60°F/60°F			Densi	ty Lbs/Gai @	
S&W % VOL:							
SOURCE OF ANALYTICAL DAT	`A:			~·····			
	V	DLUME	WCF			WEIGHT	
	BBLS	U.S. GAL	s ('	,	POUNDS	LONG TONS	METRIC TONS
ESSEL'S QUANTITIES	V.E.F. CO	RRECTED :	YES S	NO		VEF:	
TOTAL CALCULATED VOL	2430.26	102070.9	2				
FREE WATER	0.00	0.00		1		†	
GROSS STANDARD VOLUME	2430.26	102070.9	2				
S & W VOLUME		 		_			
NET) STANDARD VOLUME		 				 	
 ✓ OBQ			ROB				
IQUID MATERIAL	0.00	0.00		т			Γ
ION-LIQUID MATERIAL	0.00	0.00		+			
REE WATER	0.00	0.00		┿			
OTAL	0.00	0.00		 			
O'AL	0.00	0.00		<u></u>			
LOADED QUANTIT	IES		DISCHARGED Q	JANTITIE			
Walter Control of the							
OTAL CALCULATED VOL	2430.26	102070.92				I	
REE WATER	0.00	0.00		1			
ROSS STANDARD VOLUME	2430.26	102070.92		+			
& W VOLUME				+			
ET) STANDARD VOLUME				+			
	III ATIONS	VEC		<u> </u>	NO.0	1.000.00.00.00	
RE SLOPS INCLUDED IN CALC	ULATIONS	YES	✓ NO		NO S	LOPS ON BOARD	
FOWAGE O/B VESSEL: 3C		·—————————————————————————————————————		·····			
							
EMARKS:							

Page	 2	of	2.

[-11					
PORT/TERMINAL: LAKE CHARLE	S / CITGO	OFFICE LAKE	CHARLES, LA	TEL (337) 625-1455	
VESSEL CCL 26	VOY#	INSPECTOR(S):	BELLON	SGS FILE 118785	
CARGO PHENOLIC CAUSTIC		CLIENT CES E	nvironmental	REF TBD	
CCC	SHORE TAN	IK MEASUREMENTS (STA	ATIC) - CHEMICALS		
<u> </u>	✓ AT LOADI			GE Oll Gas & Chemicals	s Services Division.
SHORETANK # 185	REF HEIGHT	GAUGE UNITS	FT-IN FT	MM OTHER:	
OPEN DATE: 10/23/2008 TIM	ME: 13:20 CLOSE DAT	E: 10/24/2008 TIME: 14:25		OPEN	CLOSE
OBS. REF. HEIGHT & INNAGE	#WATER INNAGE OBS. REF. HEIGHT	§ INNAGE #WATER INNAGE	INSPECTOR:	BELLON	J DYKES
42-10-1/8 31-9-1/2	28-4-1/2 42-10-1/8	24-3-3/4 20-10-3/4	WITNESS:		
			☐ API @ 60ºF		
_			REL DENS 60°F/60°F		
			DENSIT Lb/Gal @		
			SOURCE:		
			☐ DENS CORR ºF/°C		
§ MEASUREMENTS TAKEN IN ACCO	ORDANCE WITH :	INNAGE: API MPMS 3.1A.9.2	□^ VCF TABLE		
# FREE WATER DETERMINED IN AC	CORDANCE WITH :	API MPMS 3.1A,10.1	AMBIENT AIR TEMP	74.0	80.0
# TEMPERATURES TAKEN IN ACCO	PRDANCE WITH :	API MPMS 7.6.4	TEMP OF TANK SHELL	74	72
^ VOLUME CALCULATED IN ACCOR	RDANCE WITH :		SOURCE SGS	CLIENT TABLE:	
PROD TEMP 74.5 x 0.8		$71.4 \times 0.875 = 62.4750$	AVG TEMP (0.5°F)	74.5	71.5
(+) AIR TEMP 74.0 x 0.1	25 = 9.2500 (+) AIR TEMP	80.0 x 0.125 = 10.0000	AVG INNAGE	31-9-1/2	24-3-3/4
TANK SHELL TEMPERATURE	= 74 TANK SHELL TE	MPERATURE = 72	AVG WATER INNAGE	28-4-1/2	20-10-3/4
ROOF CORRECTION INFO - STANDA	ARD API:		VOLUME UNITS 🗹 BBI	S M3 OTHER:	
CRITICAL ZONE RANGE FROM	TO ROOF I	LEG - HIGH - LOW	TABLE VOLUME **	10213.40	7807.38
	OPEN	CLOSE	FREE WATER	0.00	0.00
AVG INN/ULL IN CRITICAL ZON	YES V NO	YES Y NO	OBSERVED VOLUME	10213.40	7807.38
SIDEGAUGE	31-8-3/4	24-3-1/2	TANK SHELL CORR.	1.00000	1.00000
TEMPERATURES °F	# ₩ PROBE MERCURY	# PROBE _ MERCURY	OBSERVED VOLUME	10213.40	7807.38
* ACTION TAKEN :	☑ U 74.5 ☑ M 74.5 ☑ L 74.5	☑ U 71.6 ☐ M ☑ L 71.1	ROOF CORRECTION		
	□ M	□ M	PRODUCT VOLUME	10213.40	7807.38
	OTHER*	OTHER*	V.C.F.	1.00000	1.00000
SIDETEMP/REMOTE			VOLUME @ 60	10213.40	7807.38
PROBE WAS CHECKED PRIOR TO	USE YES NO	NOT USED	DIFFERENCE	2406	
SAMPLING	U DM DL		DENSITY Lb/Gai @ 60	0.00000	0.00000
* ACTION TAKEN :	□T □B ☑ R	□T □B □R	WEIGHT (MT)	0.000	0.000
	OTHER*	OTHER*	DIFFERENCE	0.0	000
AT ULLAGES :			** IS TABLE VOLUME IN	BBLS M3 (OTHER:
SHEEKED	Ref TSh Temp: 60	OP TEMP :			
-Copyright SGS-OG&C 2001 - Rev April 20	005		Services render	red according to published Go	eneral Terms and Conditi

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PORT / T	ERMINAL:	LAKE CHARL	ES	/ Cl	TGO			OFFICE: LAKE	CHARLES,	LA	TEL: (337) 6	25-1455		
VESSEL	:CCL 26			VOY	#:			INSPECTOR(S):	BELLON		SGS FILE: 11	8785		
DATE:	0/23/200	8 CARGO:	PHENOLIC C	AUSTIC				CLIENT: CES	Environmenta	al	REF: TBD			
CC	56			VESS	EL I	MEASURE	MENT S	SYSTEM(CH	EMICALS) LI OPEN	CLOSE / RES			
<u>Or</u>	10					AP	RIVAL	₩ DE	PARTURE		Oil Gas & Che	micals Servi	ces Division.	
	Y AT LO	DADING	AT TRANS	HIPMENT		AT DISCHAR	GE	✓ CARGO		BALLA	ST TANKS	NON	VOTHER CARG	0
UNITS :		FT-IN	FT		MM		OTHER:				U.S. GALS		OTHER:	
TANK #	REFERENC E HEIGHT	OBSERVED REFERENCE HEIGHT	¤ ULLAGE	WATER INNAGE	TEI	MPERATURE °F PROBE	AVG. TEMP	MEASURE	TOTAL VOLUME	FREE WATER	PRODUCT	v.c.f.	VOLUME © Obs°F	$\frac{1}{2}$
3	16-2 3/4	16-2-3/4	6-4-1/2	0-0		76.3	76.0	9-10 1/4	2430.26	0.00	2430.26	1.00000	2430.26	С
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						77	<u> </u>		0400.00		0400.00		0.400.00	_
		KED PRIOR TO				NOTUS	ED	TOTALS	2430.26	0.00	2430.26	يا	2430.26	
GAUGI	LOCATION	OTHER:	PIPE .	G.H. or	Expa	nsion trun		BARRELS	0400.00		SSEL QUANTITIE			·
* GAU	GE POSITIO	N: C = Center	of tank F = Fe	orward of C	enter	A = Aft of Cent		U.S. GAL.	2430.26 102070.92		POUNDS			
		TED IN ACCORDA				7-7100000		M3	386.381		LONG TONS			
× LIQUID	LEVEL GAUG	ES IN ACCORDA	NCE WITH		A DL A	DMC 17 0 6 1	^		360.361		METRIC TON			
§ TEMPE	RATURE DET	ERMINATION IN	ACCORDANCE			PMS 17.2.6.1.		API @ 60		COTE * 100		<u> </u>		
UPON	COMPLETIO	ON OF DISCHA	RGE ALL CAR						D RELATIVE		0000			
WELL	DRAINED	YES	NO (SE	E F-20 DFF	ARTI	IRE)			RCE:		IENT OTHE	R (SPECIFY)		
		1: 1X1 QT R						STANDAR			Galat ºF/⁵		···	
DRAF		(P) 9-0	AFT (F	9-6	******	LIST:		DENSITY	·····		Galat °F/			· · · · · ·
		(S) 9-0		9-6					· · · · · · · · · · · · · · · · · · ·			<u> </u>		·· ····· /····
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	,	·····	T		S	TEVE BELLO	N	□^ V.C.F. TAI	BLE					

SOURCE: SGS CLIENT OTHER (SPECIFY)

Services rendered according to published General Terms and Conditions

INSPECTOR

VESSEL'S STAFF
CHICS TO C 2001 - Rev April 2005
DATE

RO 10 D 9 DE

F-16											Page	01 7 1	DATE
PORT/	TERMINAL: L	AKE CHAR	LES	/ CITGO			OFFICE: LA	KE CHARLES	, LA	TEL: (30	37) 625-1455	ÉKED)THO
VESSEL	:: CCL 26			VOY#:			INSPECTOR(s): BELLON		SGS FILE	: 118785		-
DATE:	10/23/200	8 CARGO:	SPENT CAL	JSTIC			CLIENT: CE	S Environmen	tal	REF: TE	BD		
SC	iS			NOTE:	OBQ DO NOT USE V			SUREMEN IS NOT TAKEN		Oil Gas é	k Chemicals Servic	es Division.	
UNITS :	. Y F	T-IN	ី FT	☐ MM		THER:		UNITS : 🗹	BBLS []	U.S. GALS	[] M³ [] C	THER:	ı
TANK #	REFERENCE HEIGHT	OBSERVE!			NON-LIQUID	AVG. TEMP	CORRECTED MEASURE	TOTAL OBSERVED	^ V.C.F.	FREE WATER	NON-LIQUID	LIQUID VOLUME	:

UNITS:	✓ F	T-IN		FT	MM	0	THER:		UNITS : Y BE	LS []	U.S. GALS	M ² C	OTHER:
TANK #		OBSERVED REFERENC E HEIGHT	*	OBSERVED INNAGE	FREE WATER INNAGE	NON-LIQUID INNAGE		CORRECTED MEASURE		^ V.C.F.	FREE WATER VOLUME	NON-LIQUID VOLUME	LIQUID VOLUME
1	16-2 1/2	16-2-1/2	С	0-0-1/4	0-0	0-0		0-0-1/4	4.93	1.00000	0.00	0.00	4.93
2	16-2 1/2	16-2-1/2	С	0-0-1/4	0-0	0-0		0-0-1/4	5.10	1.00000	0.00	0.00	5.10
3	16-2 3/4	16-2-3/4	С	0-0	0-0	0-0		0-0	0.00	1.00000	0.00	0.00	0.00
	01101	LATED IN ACCO	Ţ					TOTALS	10.03			0.00	1000
On	behalf of our cli	ent(s) we would Bbis of L	101 101	to bring to your JID MATER N-LIQUID M	IAL ATERIAL	·		d = dip, u : GAUGE LO	= Ullage; corrected CATION: ST OTHER POSITION: C = Cen	ANDPIPE	□ G. I	i. on Expansion tr	runk
rela in c in a cor Sta	ationships, this incase you are una case you are una any event, we ha empensation for the atements with re	material belongs able to do so plea we to advise our the undelivered a gards to flowabi esponsibility for	to o ase i clier mou lity a	ur client(s) and ndicate your res nt(s) of the abov int. nd similiar advi	should be pump sons below. e and reserve hi	ed ashore. s right to seek		OBQ SAI		YES [NO IF NO		
								ROB SA	MPLED	YES [NO IF NO	REASON	
								DRAFT:	FWD (P) 2-3		AFT (P) 1-9	LIS	ST: ² (P) / (S)
<u> </u>					STE	VE BELLON			(\$) 2-3		(S) 1-9		
-	VESS	EL'S STAFF		i		INSPECTOR		SEA C	ONDITION: CALM	IN PORT			

				VE CHADLED 1.	A TEL:	(007) COE 4	8 C E	
PORT / TERMINAL: LAKE C		3 0		KE CHARLES, L		(337) 625-14	+55	
VESSEL: CCL 26	VOY #:		INSPECTOR(S): BELLON SGS FILE: 118785					
DATE: 10/23/2008	· · · · · · · · · · · · · · · · · · ·		<u> </u>					
CARGO: SPENT CAUSTIC			CLIENT: CE	ES Environmental	HEF:	TBD		
SGS	INI	FORMATION FOR	CLEANLIN			ilcals Services	Division.	
		AT DISCHARGE		SHORE	Y	VESSEL		
THE INFORMATION	N ON THIS LIRIS F-7 WII	LL BE USED TO COMPLETE	LIRIS F-9 WAS SUB	MATTED TO US BY THE F	PERSON(S) INDI	CATED BELOW		
WE CONSULTED FOR TANK		***************************************	207	12:25 WI				
VESSEL'S STA	AFF BA	ARGE OPERATOR	TERMI	NAL REPRESENTA	TIVE	CHARTER	ER	
OTHER (SPECIFY): PLEASE PRINT NAME(S)				· · · · · · · · · · · · · · · · · · ·				
PLEASE PRINT NAME(S)							 	
		<u> </u>	.,					
TANK MATERIAL:								
TANK #:	1-3C							
MATERIAL	MILD STEE	L						
COATING NAME	N/A							
APPARENT CONDITION *	ACCEPTAB	LE						
TANK #:								
MATERIAL								
COATING NAME								
DDAOENT CONDITION +	£ .	I	i i					
	NAME AND ADDRESS OF THE PARTY O	ILIEACTI DEDS	071150 (00)	FOLEN	0.15			
COATING WAS CHECKED AG F NOT CHECKED, REASO SELECT: e.g. % MISSI	ING % DISCOLO	RED %PEELING AG		etc. (ALL PERCENT	TAGES ARE	CKLIST APPROXIMATI	ONS)	
COATING WAS CHECKED AG F NOT CHECKED, REASO SELECT: e.g. % MISSI UR INSPECTION FOR F-9 COVERS TH	ING % DISCOLO	RED %PEELING AGE COATINGS, NOT ITS SUIT	CCEPTABLE &	etc. (ALL PERCENT D TO CARGO CONTAMINA	TAGES ARE	APPROXIMATI		
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COATING WAS CHECKED AG F NOT CHECKED, REASO SELECT: e.g. % MISSI UR INSPECTION FOR F-9 COVERS TH PREVIOUS CARGOES: TANK# TH 3C CAUSTIC	ING % DISCOLO	RED %PEELING AGE COATINGS, NOT ITS SUIT SECOND CAUSTIC	CCEPTABLE & ABILITY IN REGARI	LAST	TAGES ARE	COMPA VES YES YES YES YES YES YES YES	ATIBLE NO NO NO NO	
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COATING WAS CHECKED AGENOT CHECKED, REASO SELECT: e.g. % MISSING INSPECTION FOR F-9 COVERS THE PREVIOUS CARGOES: TANK# THE CAUSTIC INES - PUMPS:	ING % DISCOLO	RED %PEELING AGE COATINGS, NOT ITS SUIT SECOND CAUSTIC	CCEPTABLE & ABILITY IN REGARI	LAST CAUSTIC PERCENT	RESSED WIT	COMPA V YES YES YES YES YES YES YES YES	ATIBLE NO NO NO NO	
COATING WAS CHECKED AG F NOT CHECKED, REASO SELECT: e.g. % MISSI UR INSPECTION FOR F-9 COVERS TH PREVIOUS CARGOES: TANK# TH DC CAUSTIC INES - PUMPS:	ING % DISCOLO	RED %PEELING AGE COATINGS, NOT ITS SUIT	CCEPTABLE & ABILITY IN REGARI	CAUSTIC PF YES	RESSED WITE NO.	COMPA YES YES YES YES YES YES YES YE	ATIBLE NO NO NO NO	
COATING WAS CHECKED AG F NOT CHECKED, REASO SELECT: e.g. % MISSI UR INSPECTION FOR F-9 COVERS TH PREVIOUS CARGOES: TANK# TH 3C CAUSTIC	ING % DISCOLO	RED %PEELING AGE COATINGS, NOT ITS SUIT	CCEPTABLE & ABILITY IN REGARI	LAST CAUSTIC PF YES YES	RESSED WITE NO. NO. NO.	COMPA VES VES VES VES VES VES VES PES HINERT GAS/A PRESSURE PRESSURE	ATIBLE NO NO NO NO	
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PREVIOUS CARGOES: TANK# TH 3C CAUSTIC LINES - PUMPS: NAME M.	ING % DISCOLO THE CLEANLINESS OF THE STREET OF THE CARGO F	SECOND CAUSTIC LAST PUMPS AND LINES CANNOT	LAST USED FOR BE ASCERTAINED PLES AT THE STAR	LAST CAUSTIC PF YES YES BY VISUAL EXAMINATION	RESSED WITES NO NO NO NO NO NO NO NO NO NO NO NO NO	COMPA V YES VES VES VES VES VES VES PES P	NO NO NO NO	

9		Piga i W
PORT / TERMINAL: LAKE CHARLE / CITGO	OFFICE: LAKE CHARLES, LA	TEL: (337) 625-1455
/ESSEL: CCL 26 VOY #:	INSPECTOR(S): BELLON	
ATE: 10/23/2008	SGS FILE: 118785	
ARGO: SPENT CAUSTIC	CLIENT: CES Environmental	REF: TBD
SGS TANK CLEAN	LINESS INSPECTION OIL Ga	s & Chemicals Services Division.
✓ AT LOADING ☐ AT TRANSFER ☐ AT DISCHARGE	AS INSPECTION ONLY WITH CUST	AS PRE-INSPECTION ODY TRANSFER
USE A SEPARATE	FORM F-9 PER INSPECTION	
THIS IS THE 🛂 FIRST 📋 SECOND		TH INSPECTION
TANK(S): 1-3C		
BASED ON SUBMITTED INFORMATION (SEE LIRIS	S F-7) AND :	
VISUAL CHECK FOR RESIDUES FROM DE		
VISUAL CHECK FOR RESIDUES FROM DE		
PHYSICAL ENTRY (TANK SAFE ATMOSPI	•	OMDI ETEN DDIOD TO ENTOYO
C3 FILISIOAL ENTITE (TANK SAFE ATMOSM	HERE GIMIEMENI DELUW MUSI BE C	OMPLETED PRIOR TO ENTRY)
AND L. VISUAL INSPECTION		
and 🗔 Wallwashing (anal)	YTICAL REPORT ON FILE)	
AND TESTING OF HEATING C	COILS	
WERE REJECTED FOR CLEANLINESS TO CARRY A CARRY	ARGO OF	
REASON:		
SHIP'S STAFF AND/OR SGS SUPERVISOR AND/OR	CLIENT NOTIFIED ON	BY
INSPECTION COMPLETED AT 12:35 HRS ON THE	10/23/2008	
TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING BE	ERTH IN CASE OF PRE-INSPECTION	
10.11.T.IDGO		
FOR VESSEL	EOD TERMINAL	STEVE BELLON
IS THIS TANK ACCEPTANCE BASED SOLELY ON SUBMITTED	FOR TERMINAL	INSPECTOR
	,	MEDIATELY.
TES, ISSUE N.O.A.D. AND INI ONE TOUR	TOTOCH AND CELEUT(S) IMP	WEDIATELT.
TANK SAFE ATM	MOSPHERE STATEMENT	**************************************
undersigned certifies that those tank(s) indicated on lin		d and gas freed as
orted on the reverse side of the SGS F-7 and that the tan	• •	•
undersigned hereby grants permission for SGS person	• • • • • • • • • • • • • • • • • • • •	,
The second secon	· · · · · · · · · · · · · · · · · · ·	
Tank Safe Atmosphere Statement signed	hours on	
SIGNATURES :		
FOR VESSEL	FOR TERMINAL	
run vegger		
PRINT NAME (S):		
PRINT NAME (S):		
PRINT NAME (S): NOTE: DO NOT ENTER THE TANK(S) if this TA		MENT is not signed
PRINT NAME (S): NOTE: DO NOT ENTER THE TANK(S) if this TA	visor for further instructions.	MENT is not signed

PORT / TERMINAL: LAKE CHARLE / CITGO	
	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 26 VOY #:	INSPECTOR(S): BELLON
DATE: 10/23/2008	SGS FILE: 118785
CARGO: SPENT CAUSTIC	CLIENT: CES Environmental REF: TBD
SGS	QUANTITY OPTION Oil Gas & Chemicals Services Division.
✓ AT LOADING ☐ AT TRANSFER ☐ AT DISCHARGE	☐ RESIDUAL ☐ CLEAN PRODUCTS ☑ CHEMICALS/GASES
ABOVE VESSEL WILL 📝 LOAD 📑 DISCHARGE	AT THIS TERMINAL AT (SPECIFY):
IS PER 🔲 CHARTER PARTY 🗀 AMENDED C/P 🗹 PRII	INCIPAL'S INSTRUCTIONS 🖸 OTHER (SPECIFY)
OLLOWING QUANTITY(S) OF SPENT CAUSTIC	
() [LT] M1	T DOUNDS OTHER (SPECIFY) 9'6" DRAFFT
OR: () BBLS M ³	OTHER AT STD. TEMP OBSERV. TEMP
HIS QUANTITY(S) IS SPECIFIED AS :	
🗌 MINIMUM 🗌 MAXIMUM 🗐 MIN/MAX 🗍 PLUS (OR MINUS TO OTHER (SPECIFY) LOAD TO DRAFT
PLUS OR MINUS %" IS THE OPTION OF	VESSEL TERMINAL CLIENT
PLUS OR MINUS %" IS OPTED FOR BY	VESSEL TERMINAL CLIENT
ESSEL'S CO-MINGLING ACCEPTABLE TO OUR PRINCIPAL SEGREGATION SE	YES NO VOLUMETRIC BLENDING
IGNATURES) VESSEL'S STAFF:	DATE: 10/23/2008 TIME: 15:00
TERMINAL REPRESENTATIVE :	DATE: 10/23/2008 TIME: 15:00
INSPECTOR: STEVE BELLON	DATE: 10/23/2008 TIME: 15:00
RE STOP GAUGES: - TAKEN BY IN	NSPECTOR YES Y NO
TE STOP GAUGES TAKEN BY IN	
-TAKEN BY TE	FRMINAL/VESSEL YES 🛂 NO
	ERMINAL / VESSEL YES Y NO
- WITNESSED	
- WITNESSED	
- WITNESSED EMARKS: OTE: (1) WE CALCULATE AND CHECK ON STOP GAUGE MEASUREM	
OTE: (1) WE CALCULATE AND CHECK ON STOP GAUGE MEASUREM TERMINAL EMPLOYEES ARE SOLELY RESPONSIBLE FOR OBSE OF THE DESIGNATED TANKS. (2) OUR STAFF IS AVAILABLE TO ADVISE IN BLENDING OPERA	MENTS WHEN REQUIRED BY OUR CLIENTS; HOWEVER, VESSEL AND ERVATION OF STOP GAUGES, VALVE SETTING AND PUMPING INTO AND OUT ATIONS. VOLUMETRIC OR WEIGHT COMPOSITES CAN BE PREPARED FROM ER, DUE TO THE INHERENT DIFFICULTY IN ACHIEVING A HOMOGENEOUS PT ANY RESPONSIBILITY.
TE: (1) WE CALCULATE AND CHECK ON STOP GAUGE MEASUREM TERMINAL EMPLOYEES ARE SOLELY RESPONSIBLE FOR OBSE OF THE DESIGNATED TANKS. (2) OUR STAFF IS AVAILABLE TO ADVISE IN BLENDING OPERA COMPONENTS AND TESTED IN OUR LABORATORIES. HOWEVE	BY INSPECTOR YES NO MENTS WHEN REQUIRED BY OUR CLIENTS; HOWEVER, VESSEL AND ERVATION OF STOP GAUGES, VALVE SETTING AND PUMPING INTO AND OUT ATIONS. VOLUMETRIC OR WEIGHT COMPOSITES CAN BE PREPARED FROM ER, DUE TO THE INHERENT DIFFICULTY IN ACHIEVING A HOMOGENEOUS



Inspection Report (LOADING)

Date:

11/6/2008

Our ref.: 119101

Subject : CCL 7
Product : SPENT CAUSTIC

Location: LAKE CHARLES / CITGO

Client ref.: TBD

Client: CES ENVIRONMENTAL SERVICES

Summary of Figures	Bbis @ 60°F	Gallons @ 60°F	Long Tons	Metric Tonnes	Pounds
Shore Measurements					
Total Shore figures delivered GSV Average API Gravity @ 60°F	7,995.70	335,819.40			
Shoretanks no(s): TANK 182					
Vessel's Measurements					
Vessel's figures before loading (OBQ) Free Water	0.00				
Vessel's figures before loading (OBQ) Liquid	29.24				
Vessel's figures before loading (OBQ) Non Liquid	0.00				
Vessel's figures before loading (OBQ) Total	29.24	1,228.08			
Vessel's figures TCV on board after loading	8,122.02	341,124.84			
Vessel's figures TCV loaded	8,092.78	339,896.76			
Vessel's figures Free Water loaded	0.00	0.00			
Vessel's figures GSV loaded	8,092.78	339,896.76			

Cargo stowage Cargo tanks no(s):

CCL 7[1C, 2C, 3C]

Samples

SHORE TANK - 2X1 QUART RUNNING

BARGES - 2X1 QUART RUNNING PER CARGO TANK

Time Log

11/4/2008	1240	INSPECTOR NOTIFIED
	1305	BARGE ARRIVED
	1315	BARGE DOCKED AT C-SLIP
	1325	INSPECTOR ARRIVED
	1405	STK 182 GAUGED, SAMPLED, TEMPED OPEN
	1415	COMMENCED OBQ INSPECTION
	1430	COMPLETED OBQ INSPECTION
	1450	INSPECTOR DEPARTED
	1550	CHICKSANS CONNECTED
	1620	COMMENCED LOADING
11/5/2008	0645	GAUGED ST 182 CLOSED
	0715	COMMENCED GRAVITATING FROM ST 187 TO 182
	1430	COMPLETED GRAVITATING FROM ST 187 TO 182
	2130	RESUMED LOADING
11/6/2008	0430	SUSPENDED DISCHARGE
	0615	GAUGED ST 182 CLOSED
	0645	COMMENCED GRAVITATING FROM ST 187 TO ST 182

SGS North America Inc.

Oil, Gas & Chemicals Services 4701 E. NAPOLEON SULPHUR, LA 70663 t((337) 625-1455) t((337) 625-1721) www.sgs.com

Member of the SGS Group (Société Générale de Surveillance)



0915	COMPLETED GRAVITATING FROM ST 187 TO 182
0920	OPENED ST 182
1115	COMPLETED LOADING
1130	COMMENCED POST LOAD DECK INSPECTION
1140	COMPLETED POST LOAD DECK INSPECTION
1200	CLOSED ST 182
1230	COMMENCED FINAL CALCULATIONS
1300	COMPLETED CALCULATIONS

Additional events, Stoppages and Delays

11/5/2008	0715	COMMENCED GRAVITATING FROM ST 187 TO 182
	1430	COMPLETED GRAVITATING FROM ST 187 TO 182
	2130	RESUMED LOADING
11/6/2008	0430	SUSPENDED DISCHARGE

BRETT DAIGLE for SGS Oil, Gas & Chemicals Services

Shore volume calculated in accordance with: Vessel volume calculated in accordance with:

ASTM D 1250-04 ASTM D 1250-04

Procedures as per applicable MPMS Chapter 3.1a, 7, 8.1 or 8.2, 12.1 or 12.2, 17.1, 17.2, 17.4.

Disclaime

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FIRCC REV. January 2007

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PORT / TERMINAL: LAKE CHARLE / CITGO	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 7 VOY #:	INSPECTOR(S): BELLON
DATE: 11/4/2008	SGS FILE: 119101
CARGO: SPENT CAUSTIC	CLIENT: CES Environmental REF: TBD

SGS

VOYAGE ANALYSIS REPORT

Oil Gas & Chemicals Services Division

✓ LOADING V-1	TRANSFER	DISCHARGE	SUMMARY	,	Type of Voya	ge C/P DATE
Load Port/Terminal/Berth	ARRIVED	SAILED	Discharge Port	Terminal/Berth	ARRIVED	SAILED
LAKE CHARLES / CITGO / C S	11/4/2008	11/6/2008				
VOLUME UNITS	SUPPLIER	RECEIVER	VCF SHORE LOAD	VCF SHORE DISCI	VCF VESSEL LO	AD VCF VESSEL DISC
Y BBLS GALS M. D	- CITGO	CES				
DESCRIPTION API	TCV	FW	GSV	S&W	NSV	Reference
I. COMPARISON OF SHORE QU	ANTITIES IN CUST	ODY TRANSFER				
Bill of Lading 1.	7995.70	0.00	7995.70			(1)
Outturn 2.						(2)
Diff. 3.			<u> </u>			(3)=(2) - (1)
Diff. % 4.			55.			(4) = (3) / (1) x 100
Recalc. B/L 5. (a)	Recalculate in	B/L and O/T use	different tables.		(5) (a) Vol. Diff.
II. VESSEL/SHORE QUANTITIES	AT()LOAD	PORT(S)				
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	8122.02	0.00	8122.02	LIQUID	NON-LIQUID	N T
OBQ (Ali) E	3. 29.24	0.00	29.24	1		(B)
Loaded C	8092.78	0.00	8092.78			(C)=(A) - (B)
Difference [	97.08	0.00				(D)=(C)-[(1) or (5)]
Difference %	. 1.21%					(E)=(D)/[(1)or(5)]x100
oad Vessel Ratio F	1.0121					(F)=(C)/[(1)or(5)]
oad VEF G	i.					(G)
heoretical Shore H	1.					(H)=(C) / (G)
heoretical Shore Diff.	7995.70					(i)=(H) - [(1) or (5)]
heoretical Shore Diff. % J						(J)=(I)/[(1) or (5)]x100
I. VESSEL/SHORE QUANTITIES		ARGE PORT(S)				
essel Arrival K	<del></del>	ander ormoj		LIQUID	NON-LIQUID	K)
ROB (All) L		*****				L)
Discharged M	<del>!</del>					(M) = (K) - (L)
Difference N						(N) = (2) - (M)
Difference % O						(O) = (N) / (2) x 100
ischarge Vessel Ratio P	<u> </u>					(P) = (M) / (2)
ischarge VEF Q						(Q)
heoretical Shore R	11					(R) = (M) / (Q)
heoretical Shore Diff. S						(S) = (2) - (R)
heoretical Shore Diff. %	<u> </u>					$(T) = (S)/(2) \times 100$
						(,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
I. VESSEL/'S COMPARISON OF ransit Difference U.	·	HARGE PORT(S	) VCF TABLE M	UST BE CONSIST	ENT	(U) = (K) - (A)
Difference % V.	<del></del>			LIQUID	NON-LIQUID	(V) = (U) / (A) x 100
BQ/ROB Difference W.				LIGOID		W) = (L) · (B)
Deriod Dinerence W.						<u></u>
DJ TCV DIFF : (Qua	TCV Difference (3) - 0 ntity) / 0.00		(S S&W at Load Port	&W(1)/GSV(1)]X100 t:	ا S&W at Disch Po	\$&W(2)/GSV(2)]X100 ort :
omments :						<b>5</b>
			· · · · · · · · · · · · · · · · · · ·		·····	7
repared by : BELLON	Title: INS	PECTOR	Company:	SGS I	Date Completed :	<u> </u>
pouright SGS_OG&C June 1997 - Rev O				dered according to o		rms and Conditional

PORT / TERMINAL: LAKE CHARL	E / CITO	30	OFFICE L	OFFICE LAKE CHARLES, LA TEL (337) 625-1455					
VESSEL CCL 7	VOY#		INSPECTOR	(S): BELLON					
DATE 11/4/2008			SGS FILE						
CARGO SPENT CAUSTIC				ES Environmental	REF TBD				
SGS	;	SHORE QUA	NTITY SUM		Gas & Chemicals S	ervices Division.			
✓ AT LOADING □ AT TRAN	SFER	AT DISCHARGE	✓ SHOR	E TANK (STATIC)	☐ METE	R (DYNAMIC)			
CUSTODY TRANSFER SAMPLE									
☐ API @ 60ºF :		R.D. 60°F/60°F		☐ Densi	ty Lbs/Gal @				
S&W % VOL:									
SOURCE OF ANALYTICAL DATA:									
A									
	UNITS	TANK 182	TANK 182	TANK 182					
TOTAL CALCULATED VOLUME	BBLS	5378.83	2102.90	513.97					
FREE WATER	BBLS	0.00	0.00	0.00					
GROSS STANDARD VOLUME	BBLS	5378.83	2102.90	513.97					
S & W VOLUME	BBLS								
(NET) STANDARD VOLUME	BBLS								
WCF TABLE (1 )									
GROSS STANDARD WEIGHT									
S & W WEIGHT			······································						
NET) STANDARD WEIGHT									
	<del>11</del>			<u> </u>	<u></u>				
	UNITS	T		SHORELINE	TOTAL DE	LIVERED			
TOTAL CALCULATED VOLUME	BBLS				799	5.70			
REE WATER	BBLS				0.0	00			
ROSS STANDARD VOLUME	BBLS				7995	5.70			
& W VOLUME	BBLS		<u> </u>						
NET) STANDARD VOLUME	BBLS		<del></del>						
					GSV NSV	SV @			
ROSS STANDARD WEIGHT									
& W WEIGHT					· · · · · · · · · · · · · · · · · · ·	<u> </u>			
NET) STANDARD WEIGHT						·			
		<u> </u>		<u></u>					
TOWAGE O/B VESSEL: 1-3C									
11		······································	T	B/L DATE:					
EMARKS QUANTITY CONFIRM	FD.	OLIANITITY OF	IANGES	<del></del>	IE VEG CTATE O	EASON			
EMARKS QUANTITY CONFIRMS  with of		QUANTITY CH	IANGES E	YES NO	IF YES STATE R	PIOCE			
with of						<u> </u>			
Date Time						<u></u>			

F-2			T		Pag-	e tot		
PORT / TERMINAL: LAKE CH			<del></del>	CHARLES, LA	TEL: (337)	625-1455		
VESSEL: CCL 7	VOY #:		INSPECTOR(S): BELLON					
DATE: 11/4/2008 CARGO: SPENT CAUSTIC			SGS FILE: 119		REF: TBD			
CARGO: SPENT CAUSTIC			<u> </u>		NEI . 188			
<u> </u>	V	ESSEL QUA	NIIIY SUM	MARY Oil G	ias & Chemicals Se	rvices Division.		
AT LOADING ATT	RANSFER A	T DISCHARGE	CRUDE	DIL	<b>☑</b> PROD	UCTS		
API @ 60°F :		R.D. 60°F/60°F		Densit	y Lbs/Gal @			
8&W % VOL:								
OURCE OF ANALYTICAL DAT	ГА:							
	v	OLUME	WCF	1	WEIGHT			
	BBLS	U.S. GALS	//+ \	POUNDS	LONG TONS	METRIC TONS		
ESSEL'S QUANTITIES	V.E.F. CO	DRRECTED :	YES Y	NO	VEF:	L (AIR)		
OTAL CALCULATED VOL	8122.02	341124.84						
REE WATER	0.00	0.00						
ROSS STANDARD VOLUME	8122.02	341124.84						
& W VOLUME								
ET) STANDARD VOLUME						<u> </u>		
OBQ			ROB					
QUID MATERIAL	29.24	1228.08						
ON-LIQUID MATERIAL	0.00	0.00						
REE WATER	0.00	0.00						
OTAL	29.24	1228.08						
LOADED QUANTIT	NES	0	SCHARGED QUA	NTITIES				
TAL CALCULATED VOL	0000 70	000000 ==			T			
OTAL CALCULATED VOL	8092.78	339896.76						
REE WATER	0.00	0.00						
OSS STANDARD VOLUME	8092.78	339896.76						
W VOLUME								
ET) STANDARD VOLUME		<u> </u>						
RE SLOPS INCLUDED IN CALC		YES	✓ NO	. NO S	SLOPS ON BOARD			
OWAGE O/B VESSEL: 1-3C	<u> </u>							
:MARKS:		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·					

PORT / TERMINAL: LAKE CHARLE / CITGO	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 7 VOY #:	INSPECTOR(S): BELLON
DATE: 11/4/2008	SGS FILE: 119101
CARGO: SPENT CAUSTIC	CLIENT: CES Environmental REF: TBD

SGS

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### TIME LOG

Oil Gas & Chemicals Services Division.

	UU	40440	✓ AT TDANCEED								Oil Gas & Chemicals Services Division.  AT DISCHARGE						
[	ATLO	ADING	☑ AT TRANSFER								r	,	· · · · · ·	<del></del>			<del></del>
		YEAR	2008	<u>/ MC</u>	HTM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DE
Date	Hour							<del></del>									
11/4	12:40		ISPEC			ED								,			
11/4	13:05		ARGE												<u> </u>		
11/4	13:15		ARGE				> 										
11/4	13:25		ISPEC					···	······································								
11/4	14:05							MPED O	PEN								
11/4	14:15		OMME														
11/4	14:30		OMPLE			·	TION										
11/4	14:50	11	SPECT	OR D	EPAR	ΓED											
11/4	15:50	C	HICKS	ANS C	ONNE	CTED											
11/4	16:20	C	MME	VCED!	LOADI	NG											
11/5	06:45	G.	AUGED	ST 18	32 CLC	SED											
11/5	07:15	C	OMME	VCED (	GRAV	TATIN	G FRO	M ST 18	7 TO 18	32							
11/5	14:30	C	OMPLE	TED G	RAVI	TATING	FROM	1 ST 187	TO 18	2							
1/5	21:30	RI	SUME	D LOA	DING												
11/6	04:30	1	JSPEN														
1/6	06:15	G,	AUGED	ST 18	32 CLC	SED											
11/6	06:45	CO	MMEN	ICED (	GRAVI	TATIN	G FRO	VI ST 18	7 TO S	182							
11/6	09:15	CC	MPLE	TED G	RAVIT	ATING	FROM	IST 187	TO 182	2							
11/6	09:20	01	PENED	ST 18	2											_	
1/6	11:15	CC	MPLE	TED L	OADIN	IG											
1/6	11:30	CC	MMEN	ICED F	POST	LOAD	DECK I	NSPECT	ION								
1/6	11:40	CC	MPLE	TED P	OST L	OAD D	ECK IN	ISPECTI	ON								
1/6	12:00	CL	OSED	ST 182	2												
1/6	12:30	CC	MMEN	ICED F	INAL	CALC	JLATIO	NS									
1/6	13:00	CC	MPLE	FED C	ALCUI	ATION	NS										
#															·		
DEI	LAYS AND 07:15			CED 6	RAVII	TATING	FROM	1 ST 187	TO 18	,							
1/5	14:30							ST 187		<u> </u>	·						
1/5	21:30		SUME				, 110141	J: 107	. 0 102								
1/6	04:30		SPEND			RGE			** <u>***********************************</u>								
1								············									<u> </u>
IES M	ARKED * A	RE SUE	MITTE	) TO U	S.								1	IME LO	G PAGE	OF	뿣

Services rendered according to published General Terms and Conc

F-10									Page 1 of 3	
PORT / TERMINAL: L	LAKE CHARLE	S		CITGO		OFFICE LAKE	CHARLES, LA	TEL (337) 625-1455		
VESSEL CCL 7				VOY#		INSPECTOR(S):		SGS FILE 119101	<u> </u>	
CARGO SPENT CA	AUSTIC	<del></del>				CLIENT CESE	nvironmental	REF TBD		
CCC					E TANK ME	ASUREMENT	S (STATIC)			
<u>ouo</u>			V	AT LOADING	A1	TRANSFER	AT DISCHARGE	Oil Gas & Chemicais S	ervices Division.	
SHORETANK # 182	2		REF HEI	GHT: FLOATING	G ROOF C	GAUGE UNITS	FT-IN FT	MM OTHER:		
	11/4/2008 TII	ME: 14:	05	CLOSE DAT	E:11/5/2008 T	IME: 6:45		OPEN	CLOSE	
OBS. REF. HEIGHT	INNAGE	# WATER	INNAGE	OBS. REF. HEIGHT	§ INNAGE	<b>WATER INNAGE</b>	INSPECTOR:	STEVE BELLON	JOE BUSBY	
	27-4-3/4	0-0	0-0	13-2-1/2	10-8-10	0-0-0	WITNESS:			
							API @ 60ºF			
							SOURCE			
							AMBIENT AIR TEMP	75.0	70.0	
							TEMP OF TANK SHELL	74	69	
	-						AVG TEMP (0.1ºF)	74.0	69.0	
§ MEASUREMENTS	TAKEN IN ACC	RDANCI	WITH	:	INNAGE: API MP	MS 3.1A.9.2	AVG INNAGE	27-4-3/4	10-8-10	
FREE WATER DET	ERMINED IN AC	CORDA	ICE WITH	:	API MPMS 3.1A.	0.1	AVG WATER INNAGE	0-0-0	0-0-0	
# TEMPERATURES T	TAKEN IN ACCO	RDANCE	WITH	*	API MPMS 7.6.4		VOLUME UNITS BBLS M3 OTHER:			
^ VOLUME CALCULA	ATED IN ACCOR	DANCE	WITH	:	ASTM D 1250-04		TABLE VOLUME **	8793.28	3414.45	
PROD TEMP	73.9 x 0.	875 =	64.6625	PROD TEMP	69.1 x	0.875 = 60.4625	FREE WATER	0.00	0.00	
(+) AIR TEMP	75.0 <b>x 0.</b>	125 =	9.3750	(+) AIR TEMP	70.0 x	<b>0.125</b> = 8.7500	OBSERVED VOLUME	8793.28	3414.45	
TANK SHELLTEMPE	RATURE:	=	74	TANK SHELL TE	MPERATURE	= 69	TANK SHELL CORR.	1.00000	1.00000	
ROOF CORRECTION	INFO - STAND	ARD API:					OBSERVED VOLUME	8793.28	3414.45	
CRITICAL ZONE RAN	NGE FROM		то	ROOF	EG 🗌 HIG	H 🗆 LOW	ROOF CORRECTION	0.00	00.0	
			OP	EN	C	LOSE	GROSS OBSERVED VOL.	8793.28	3414.45	
AVG INN/ULL IN CRI	TICAL ZONE		YES	✓ NO	☐ YES	<b>✓</b> NO	^VCF TABLE : (t 6B )	1.00000	1.00000	
SIDEGAUGE/ATG			26-9	26-9	10-0-	7 10-0-8	GROSS STANDARD VOL.	8793.28	3414.45	
TEMPERATURES °F		# 🗸	PROBE	MERCURY	# PROBE	☐ MERCURY	DIFFERENCE	537	78.83	
* ACTION TAKEN :		[] U	✓ M	73.9 🗌 L	□ U 🗹	M 69.1 L	CUSTODY TRANSFER SAN	IPLE:	<del></del>	
		□ M		······································	□м		API @ 60°F			
		□ OTH	IER*		OTHER*	***************************************	S & W % VOL.			
SIDETEMP/REMOTE	=						S & W VOLUME			
PROBE WAS CHECK	KED PRIOR TO	USE 🗹	YES	NO 🗆	NOT USED		NET STANDARD VOLUME			
SAMPLING		Y U	Y A	A V L	l u	M 🗆 L	WCF TABLE : (t 8 )			
* ACTION TAKEN :	······································	T				В В	GROSS STANDARD WT.			
		□ от			OTHER*		NET STANDARD WEIGHT			
AT ULLAGES :	<del></del>	<del>                                     </del>	<del></del>				WEIGHT LINITS TIT	NT VIRE	OTUED:	

OP TEMP:

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Ref TSh Temp: 60

OTHER:

** IS TABLE VOLUME IN 🗹 BBLS 🗌 M3

<b>5.10</b>					Page 2 of 3
F-10 PORT / TERMINAL: LAKE CHARL	ES / CITGO	OFFICE LAKE	CHARLES, LA	TEL (337) 625-1455	
VESSEL CCL 7	VOY#	INSPECTOR(S):		SGS FILE 119101	
	401#	CLIENT CES		REF TBD	
CARGO SPENT CAUSTIC	01105			NEF IDD	
SGS		RE TANK MEASUREMENT	·	Oli Coo & Ohamiaala C	lamdaaa Distatan
ONO DETANK II 100	AT LOADING	AT TRANSFER	AT DISCHARGE	Oil Gas & Chemicals S	ervices Division.
SHORETANK # 182	REF HEIGHT: FLOATIN		FT-IN FT	MM OTHER:	0.005
OPEN DATE: 11/5/2008  OBS. REF. HEIGHT   INNAGE	TIME: 15:30 CLOSE DA	TE: 11/6/2008 TIME: 6:15		OPEN	CLOSE
· · · · · · · · · · · · · · · · · · ·			INSPECTOR.	JOE BUSBY	JOE BUSBY
18-10-1/2 16-4-6	0-0-0 12-4-1/4	9-10-1/8 0-0-0	WITNESS:		
			API @ 60°F		
			SOURCE		
			AMBIENT AIR TEMP	74.0	75.0
			TEMP OF TANK SHELL	72	75
			AVG TEMP (0.1°F)	72.1	75.1
§ MEASUREMENTS TAKEN IN AC	CORDANCE WITH :	INNAGE: API MPMS 3.1A.9.2	AVG INNAGE	16-4-6	9-10-1/8
# FREE WATER DETERMINED IN	ACCORDANCE WITH :	API MPMS 3.1A.10,1	AVG WATER INNAGE	0-0-0	0-0-0
# TEMPERATURES TAKEN IN ACC	ORDANCE WITH :	API MPMS 7.6.4	VOLUME UNITS BB	LS M3 OTHER	:
^ VOLUME CALCULATED IN ACC	ORDANCE WITH :	ASTM D 1250-04	TABLE VOLUME **	5235.18	3132.28
PROD TEMP 72.1 x	0.875 = 63.0875 PROD TEMP	75.1 x 0.875 = 65.712	FREE WATER	0.00	0.00
(+) AIR TEMP 74.0 x	0.125 = 9.2500 (+) AIR TEMP	75.0 x 0.125 = 9.375	OBSERVED VOLUME	5235.18	3132.28
TANK SHELLTEMPERATURE:	= 72 TANK SHELL T	EMPERATURE = 75	TANK SHELL CORR.	1.00000	1.00000
ROOF CORRECTION INFO - STAN	IDARD API:		OBSERVED VOLUME	5235,18	3132.28
CRITICAL ZONE RANGE FROM	TO ROOF	LEG HIGH LOW	ROOF CORRECTION	0.00	0.00
	OPEN	CLOSE	GROSS OBSERVED VOL.	5235.18	3132.28
AVG INN/ULL IN CRITICAL ZONE	YES MO	YES NO	^VCF TABLE : (t 6B )	1.00000	1.00000
SIDEGAUGE/ATG	15-8-4 15-8-3	9-1-12 9-1-13	GROSS STANDARD VOL.	5235.18	3132.28
TEMPERATURES PF	# PROBE MERCURY		DIFFERENCE	210	02.90
* ACTION TAKEN :	U M 72.1 L	□ U	CUSTODY TRANSFER SAM	APLE:	
	I M		API @ 60°F/ DE		
	OTHER*	OTHER*	S&W% VOL.		
SIDETEMP/REMOTE			S & W VOLUME	<del></del>	
PROBE WAS CHECKED PRIOR T	OUSE Y YES NO	NOT USED	NET STANDARD VOLUME		<del></del>
SAMPLING			WCF TABLE : (t 8		
* ACTION TAKEN :	T B B		GROSS STANDARD WT.		

Т

OTHER*

OP TEMP:

В

R

NET STANDARD WEIGHT

WEIGHT UNITS

LT

"IS TABLE VOLUME IN V BBLS M3 OTHER:

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AT ULLAGES:

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OTHER*

Ref TSh Temp: 60

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□ R

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☐ MT ✓ LBS ☐ OTHER:

F-10					age 3 of 3
PORT / TERMINAL: LAKE CHAR	LES / CITGO	OFFICE LAKE	CHARLES, LA	TEL (337) 625-1455	
VESSEL CCL 7	VOY#	INSPECTOR(S):	BELLON	SGS FILE 119101	
CARGO SPENT CAUSTIC		CLIENT CES E	Environmental	REF TBD	
CCC	SHOR	E TANK MEASUREMENT	S (STATIC)		
<b>3</b> 43	AT LOADING	AT TRANSFER	T AT DISCHARGE	Oil Gas & Chemicais Se	ervices Division.
SHORETANK #	REF HEIGHT:	GAUGE UNITS	FT-IN FT	MM OTHER:	
OPEN DATE: 11/6/2008		E:11/6/2008 TIME: 12:00		OPEN	CLOSE
OBS. REF. HEIGHT & INNAGE	MWATER INNAGE OBS. REF. HEIGHT	§ INNAGE AWATER INNAGE	INSPECTOR:	JOE BUSBY	JOE BUSBY
16-7 13-1-1	0-0-0 14-1-08	11-5-15 0-0-0	WITNESS:		
			API @ 60°F		
			SOURCE		
			AMBIENT AIR TEMP	75.0	76.0
			TEMP OF TANK SHELL	76	77
			AVG TEMP (0.1°F)	76.4	76.6
§ MEASUREMENTS TAKEN IN AC	CORDANCE WITH :	INNAGE: API MPMS 3.1A.9.2	AVG INNAGE	13-1-1	11-5-15
# FREE WATER DETERMINED IN	ACCORDANCE WITH :	API MPMS 3.1A.10.1	AVG WATER INNAGE	0-0-0	0-0-0
# TEMPERATURES TAKEN IN AC	CORDANCE WITH :	API MPMS 7.6.4	VOLUME UNITS BBLS M3 OTHER:		
^ VOLUME CALCULATED IN ACC	ORDANCE WITH :	ASTM D 1250-04	TABLE VOLUME **	4178.68	3664.71
PROD TEMP 76.4	0.875 = 66.8500 PROD TEMP	76.6 x 0.875 = 67.0250	FREE WATER	0.00	0.00
(+) AIR TEMP 75.0	0.125 = 9.3750 (+) AIR TEMP	76.0 x 0.125 = 9.5000	OBSERVED VOLUME	4178.68	3664.71
TANK SHELLTEMPERATURE:	= 76 TANK SHELL TE	MPERATURE = 77	TANK SHELL CORR.	1.00000	1.00000
ROOF CORRECTION INFO - STAI	NDARD API:		OBSERVED VOLUME	4178.68	3664.71
CRITICAL ZONE RANGE FROM	TO ROOF	LEG HIGH LOW	ROOF CORRECTION	0.00	0.00
	OPEN	CLOSE	GROSS OBSERVED VOL.	4178.68	3664.71
AVG INN/ULL IN CRITICAL ZONE	YES NO	YES V NO	^VCF TABLE : (t 6B )	1.00000	1.00000
SIDEGAUGE/ATG	12-4-14 12-4-14	10-9-12 10-9-12	GROSS STANDARD VOL.	4178.68	3664.71
TEMPERATURES °F	# PROBE MERCURY	# PROBE MERCURY	DIFFERENCE	513	3.97
* ACTION TAKEN :	□ U	□ U	CUSTODY TRANSFER SAM	IPLE:	
	□ M		API @ 60°F/ DE		
	OTHER*	OTHER*	S & W % VOL.		
SIDETEMP/REMOTE			S & W VOLUME		
PROBE WAS CHECKED PRIOR	OUSE YES NO	NOT USED	NET STANDARD VOLUME		
SAMPLING			WCF TABLE : (t8 )		
* ACTION TAKEN :	□T □B □R	T DB DR	GROSS STANDARD WT.		
	☐ OTHER*	OTHER*	NET STANDARD WEIGHT		
AT ULLAGES :			WEIGHT UNITS LT	☐ MT ☐ LBS ☐	OTHER:
CKED	Bot TSh Town . 60	OR TENR.	* IS TABLE VOLUME IN	PRIS MAS	OTHER .

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F-15			·····							<u> </u>	Pa	ige Y of	1
PORT/	TERMINAL:	LAKE CHARL	.ES	/ CIT	GO		OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455						
VESSEL	:CCL7			VOY:	<b>#:</b>		INSPECTOR(S): BELLON SGS FILE: 119101						
DATE:	11/4/2	008 <b>CARGO</b> :	SPENT CAU	STIC			CLIENT: CE	S Environmen	tal	REF: TBD			
CI	<b>2</b> C			VES	SEL ME	ASUREMEN	T SYSTEM	OPEN	CLOSE / F	RESTRICTED			
<u> </u>	10_				ARRIVAL		DEPARTURE			Oil Gas & (	hemicals Se	rvices Division	
		DADING	AT TRANS	HIPMENT	AT DI	SCHARGE	CAF	RGO TANKS	BALLA	AST TANKS	NO NO	N/OTHER CARG	0
UNITS :		FT-IN	<u> </u>		MM	OTHER:		UNITS : 🗹	BBLS	U.S. GALS	M³ OTHER:		
TANK #		OBSERVED REFERENCE HEIGHT	¤ INNAGE	WATER INNAGE	TEMPERATI § PRO	TEMP	MEASURE	li e	FREE WATER	GROSS OBSERVED VOLUME	^ V.C.F. (t 6B )	GROSS STANDARD VOLUME	•
1C	15-7	15-7	10-11-1/4	0-0-0	73.	73.1	10-11-1/4	2799.91	0.00	2799.91	1.00000	2799.91	С
2C	15-7	15-7	10-8-1/2	0-0-0	75.	2 75.2	10-8-1/2	2801.08	0.00	2801.08	1.00000	2801.08	С
3C	15-7	15-7	9-7-1/2	0-0-0	72.	3 72.3	9-7-1/2	2521.03	0.00	2521.03	1.00000	2521.03	C
											<del></del>		+-
				<u> </u>	<u> </u>		+				<del> </del>	<u> </u>	-
							1		<del> </del>	1	+		
		1											1
				<u> </u>									
				<u> </u>	<u> </u>			0100.00	<del> </del>			1	
		ED PRIOR TO US				NOT USED	TOTALS		0.00	8122.02		8122.02	
GAUGI	LOCATION	STANI		Y G.H. on	Expansion T	runk		CORRECTED MEASURE: w = Wedge corrected, t = Trim corrected					
* GAU	GE POSITIO	N: C = Center		orward of Ce	nter A = Aft	of Center		API @ 60°F SOURCE:					
	······································	: 1 QT PER					S&W-VOL%: SOURCE:  S&W-VOL: WCF TABLE: (t 8 )						
Orani.		· I WITTER	TOWN				_	ARD VOLUME	······································	WOF IAB		<u>, , , , , , , , , , , , , , , , , , , </u>	
BALLA	ST TANKS I	PERMANENT	YES	IF NO	(SEE F-15 B/	ALLAST TANKS)		NDARD WEIGH	IT			<del></del>	
	JCTION SEA						NET STAND	ARD WEIGHT	···				
DRAF	r: FWD	(P) 9-6	AFT (P	9-6	LIS	T: º(P)/(	S) TOTAL CAL	C. VOL. DEPAR	TURE			<del></del>	HHT-1
		(S) 9-6	(9	9-6			REMARKS :		······································				
SE	A CONDITIO	N: CALM IN	PORT				^ VOLUME CA	LCULATED IN AC	CORDANCE WI	тн ј	ASTM D 125	50-04	***************************************
				JOE BUSB	Υ		¤ LIQUID LEVE	L GAUGES IN AC	CORDANCE WI	тн ,	API MPMS 1	17.2.5.2	
CHE	JKED _{AE}	SSEL'S STAFF			INSPE	CTOR	ŞTEMPERATU	RE DETERMINAT	ON IN ACCORD	ANCE WITH	API MPMS 7	7.6.4	
Copyrig	KSGS-UG&C	2001 - Rev April	2005						Services re	ndered according to	published Gen	eral Terms and Co	ondition

F-16												Page	e i of i
PORT /	TERMINAL: L	AKE CHARL	ES		/ CITGO			OFFICE: LA	KE CHARLES, I	_A	TEL: (33	7) 625-1455	
VESSEL: CCL 7 VOY #:					INSPECTOR(S): BELLON SGS FILE: 119101								
DATE:	11/4/20	08 CARGO:	SPE	NT CAUSTIC	,			CLIENT: CE	S Environmenta	ı	REF: TB	D	
SC	S					OBQ DO NOT USE V.			SUREMENT IS NOT TAKEN		Oil Gas &	Chemicals Service	es Division.
UNITS :	<b>∀</b> F	T-IN	[]	FT	□ MM	□ o	THER:		UNITS: 🗹	3BLS	U.S. GALS	☐ M³ ☐ C	THER:
TANK #	REFERENCE HEIGHT	OBSERVED REFERENC E HEIGHT	*	OBSERVED INNAGE	FREE WATER INNAGE	NON-LIQUID INNAGE	AVG. TEMP	CORRECTED MEASURE	TOTAL OBSERVED VOLUME	^ V.C.F.	FREE WATER VOLUME	NON-LIQUID VOLUME	LIQUID VOLUME
1	15-7		С	0-0	0-0	0-0		0-0	29.24		0.00	0.00	29.24
2	15-7		С	0-0	0-0	0-0		0-0	0.00		0.00	0.00	0.00
3	15=7		С	0-0	0-0	0-0		0-0	0.00		0.00	0.00	0.00
		ATED IN ACCO		NCE WITH	tention that in	our opinion :		TOTALS	29.24	d measure	0.00	0.00  orrected, t = Trim	29.24
) 	oerian or our on	Bbls of L	.IQI	JID MATERI I-LIQUID MA	AL	our opinion .		GAUGE LO	CATION: 🗹 S	TANDPIPE R :	☐ G.⊦	l. on Expansion tr	unk
remains on board your vessel. To the extent we are aware of contractual relationships, this material belongs to our client(s) and should be pumped ashore.						* GAUGE POSITION: C = Center of tank F = Forward of Center A = Aft of Center							
				ur client(s) and s ndicate your reas		ec asnore.		OBQ SAN	TPLEU L	YES 🗸	NO IF NO	HEASUN	
		ve to advise our he undelivered a		t(s) of the above	and reserve hi	s right to seek		OPO TEO	TED	VEC	NO 15 NO	PEACON	
Sta	tements with re	gards to flowabi	lity a	nd similiar adviso	ory services ex	press personal		OBQ TES	IEU L	YES	NO IF NO	REASON	
opii	nions without re	sponsibility for	SGS.					ROB SAN	ADI ED	YES	NO IF NO	DEASON	
					···			NOD SAN	nreev		HO IF NO	NEASON	
								DRAFT:	FWD (P) 2-3	<del></del>	AFT (P) 1-3	LIS	T: 9/P)//S

(S) 2-3

SEA CONDITION: CALM IN PORT

STEVE BELLON

INSPECTOR

CHECKEDESSEL'S STAFF

BATE

BO KG/65

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**(S)** 1-3

F-7										
PORT/TERMINAL: LAKE (	CHARLE / CIT	rgo		OFFICE:	LAKE CH	ARLES,	, LA	TEL:	(337) 625-	1455
VESSEL: CCL 7	VOY #:			INSPECT	OR(S): BE	LLON				
DATE: 11/4/2008				SGS FILE	<b>≣:</b> 119101					
CARGO: SPENT CAUSTIC	3			CLIENT:	CES Envi	ronment	al	REF:	TBO	
SGS	IN	IFORMA	TION FOR	CLEAN	LINESS IN			& Chem	icals Service	es Division
AT LOADING	AT TRANSFER	☐ AT D	ISCHARGE		S	HORE	<del>-</del> -	¥	VESSEL	
THE INFORMATIO	ON ON THIS LIRIS F-7 W	VILL BE USED	TO COMPLETE	LIRIS F-9 WA	S SUBMITTED T	O US BY TI	HE PERS	ON(S) INDIC	ATED BELOW	
WE CONSULTED FOR TANI	K INSPECTION O	N (DATE)	11/4/2008	3 (TIME)	1	4:15	WITH:			
VESSEL'S ST	AFF E	BARGE OP	ERATOR		RMINAL RE	PRESEN	/TATI	<u>'E                                    </u>	CHARTE	RER
OTHER (SPECIFY):										<del>, , ,</del>
PLEASE PRINT NAME(S)										
<del></del>								····		
TANK MATERIAL:										
TANK #:	1-3C									
MATERIAL	MILD STE	EL								
COATING NAME	N/A									
PPARENT CONDITION *	ACCEPTA	BLE								
TANK #:										
MATERIAL										
COATING NAME										
PPARENT CONDITION *										
OATING WAS CHECKED A	GAINST 🗌 MA	NUFACTU	RERS	OTHER	(SPECIFY)		- <u></u>	CHE	CKLIST	
NOT CHECKED, REASO										
F NOT CHECKED, REASO SELECT: e.g. % MISS	SING % DISCOLO	ORED %F	PEELING A	CCEPTABI	LE etc. (AL			ES ARE		ATIONS)
COATING WAS CHECKED A F NOT CHECKED, REASO SELECT: e.g. % MISS UR INSPECTION FOR F-9 COVERS T	SING % DISCOLO	ORED %F	PEELING A	CCEPTABI	LE etc. (AL			ES ARE		AΠONS)
NOT CHECKED, REASO SELECT: e.g. % MISS UR INSPECTION FOR F-9 COVERS T	SING % DISCOLO	ORED %F	PEELING A	CCEPTABI	LE etc. (AL			ES ARE		AΠONS)
F NOT CHECKED, REASO  SELECT: e.g. % MISS UR INSPECTION FOR F-9 COVERS T  PREVIOUS CARGOES:	SING % DISCOLO	ORED %F	PEELING A	CCEPTABL TABILITY IN R	LE etc. (AL	GO CONTA		ES ARE	APPROXIM <i>A</i>	ATIONS) PATIBLE
F NOT CHECKED, REASO  SELECT: e.g. % MISS UR INSPECTION FOR F-9 COVERS T  PREVIOUS CARGOES:	SING % DISCOLONE CLEANLINESS OF THE CLEANLINESS OF	ORED %F	PEELING A	CCEPTABLE FABILITY IN RE	LE etc. (AL	GO CONTA	MINATIO	ES ARE	APPROXIM <i>A</i>	PATIBLE
F NOT CHECKED, REASO SELECT: e.g. % MISS UR INSPECTION FOR F-9 COVERS T PREVIOUS CARGOES: TANK# T	SING % DISCOLONE CLEANLINESS OF THE CLEANLINESS OF	ORED %F	PEELING AGES, NOT ITS SUIT	CCEPTABLE FABILITY IN RE	LE etc. (AL	GO CONTA	MINATIO	ES ARE	APPROXIMA COM	PATIBLE NO
F NOT CHECKED, REASO SELECT: e.g. % MISS UR INSPECTION FOR F-9 COVERS T PREVIOUS CARGOES: TANK# T	SING % DISCOLONE CLEANLINESS OF THE CLEANLINESS OF	ORED %F	PEELING AGES, NOT ITS SUIT	CCEPTABLE FABILITY IN RE	LE etc. (AL	GO CONTA	MINATIO	ES ARE	COM YES	PATIBLE NO
F NOT CHECKED, REASO SELECT: e.g. % MISS UR INSPECTION FOR F-9 COVERS T PREVIOUS CARGOES: TANK# T	SING % DISCOLONE CLEANLINESS OF THE CLEANLINESS OF	ORED %F	PEELING AGES, NOT ITS SUIT	CCEPTABLE FABILITY IN RE	LE etc. (AL	GO CONTA	MINATIO	ES ARE	COM  COM  YES	PATIBLE NO NO NO
F NOT CHECKED, REASO SELECT: e.g. % MISS UR INSPECTION FOR F-9 COVERS T PREVIOUS CARGOES: TANK# T	SING % DISCOLONE CLEANLINESS OF THE CLEANLINESS OF	ORED %F	PEELING AGES, NOT ITS SUIT	CCEPTABLE FABILITY IN RE	LE etc. (AL	GO CONTA	MINATIO	ES ARE	COM  YES  YES  YES	PATIBLE NO NO NO NO
F NOT CHECKED, REASO SELECT: e.g. % MISS UR INSPECTION FOR F-9 COVERS T PREVIOUS CARGOES: TANK# T	SING % DISCOLONE CLEANLINESS OF THE CLEANLINESS OF	ORED %F	PEELING AGES, NOT ITS SUIT	CCEPTABLE FABILITY IN RE	LE etc. (AL	GO CONTA	MINATIO	ES ARE	COM YES YES YES	PATIBLE  NO NO NO NO NO
NOT CHECKED, REASO SELECT: e.g. % MISS OF INSPECTION FOR F-9 COVERS TO REVIOUS CARGOES: TANK# T	SING % DISCOLONE CLEANLINESS OF THE CLEANLINESS OF	ORED %F	PEELING AGES, NOT ITS SUIT	CCEPTABL FABILITY IN R	LE etc. (AL	GO CONTA	MINATIO	ES ARE	COM  YES  YES  YES  YES  YES  YES	PATIBLE NO NO NO NO NO
F NOT CHECKED, REASO SELECT: e.g. % MISS UR INSPECTION FOR F-9 COVERS T PREVIOUS CARGOES: TANK# T	SING % DISCOLONE CLEANLINESS OF THE CLEANLINESS OF	ORED %F	PEELING AGES, NOT ITS SUIT	CCEPTABL FABILITY IN R	LE etc. (AL	GO CONTA	MINATIO	ES ARE	COM YES YES YES YES YES YES	PATIBLE NO NO NO NO NO
F NOT CHECKED, REASO SELECT: e.g. % MISS UR INSPECTION FOR F-9 COVERS T PREVIOUS CARGOES: TANK# T	SING % DISCOLONE CLEANLINESS OF THE CLEANLINESS OF	ORED %F	PEELING AGES, NOT ITS SUIT	CCEPTABL FABILITY IN R	LE etc. (AL	GO CONTA	MINATIO	ES ARE	COM YES YES YES YES YES YES YES YES	PATIBLE NO NO NO NO NO NO
NOT CHECKED, REASO SELECT: e.g. % MISS IR INSPECTION FOR F-9 COVERS T  REVIOUS CARGOES: TANK# T  C SPENT CA	SING % DISCOLONE CLEANLINESS OF THE CLEANLINESS OF	ORED %F	SECOND	CCEPTABL FABILITY IN R	LE etc. (AL	GO CONTA	AST	GES ARE	COM YES YES YES YES YES YES YES YES	PATIBLE NO NO NO NO NO NO
NOT CHECKED, REASO SELECT: e.g. % MISS IN INSPECTION FOR F-9 COVERS T  REVIOUS CARGOES: TANK# T  C SPENT CA	SING % DISCOLO HE CLEANLINESS OF T HIRD LAST AUSTIC	ORED %F	SECOND	CCEPTABI FABILITY IN RI	LE etc. (AL	L. T CAUS	AST	GES ARE	COM YES YES YES YES YES YES YES YES YES	PATIBLE NO NO NO NO NO NO
NOT CHECKED, REASO SELECT: e.g. % MISS R INSPECTION FOR F-9 COVERS T  REVIOUS CARGOES: TANK# T  C SPENT CA	SING % DISCOLO HE CLEANLINESS OF T HIRD LAST AUSTIC	ORED %F	SECOND	CCEPTABI FABILITY IN RI	LE etc. (AL	L/T CAUS	AST TIC	GES ARE	COM  YES  YES  YES  YES  YES  YES  YES  YE	PATIBLE NO NO NO NO NO NO NO
NOT CHECKED, REASO SELECT: e.g. % MISS R INSPECTION FOR F-9 COVERS T REVIOUS CARGOES: TANK# T SPENT CA	SING % DISCOLO HE CLEANLINESS OF T HIRD LAST AUSTIC	ORED %F	SECOND	CCEPTABI FABILITY IN RI LAST	LE etc. (AL	L. T CAUS	AST TIC PRES	SSED WIT	COM YES YES YES YES YES YES YES YES YES YES	PATIBLE NO NO NO NO NO NO
NOT CHECKED, REASO SELECT: e.g. % MISS R INSPECTION FOR F-9 COVERS T  REVIOUS CARGOES: TANK# T  C SPENT CA	SING % DISCOLO HE CLEANLINESS OF T HIRD LAST AUSTIC	ORED %F	SECOND	CCEPTABI FABILITY IN RI LAST	LE etc. (AL	L. T CAUS	AST TIC PRES	SSED WIT	COM YES YES YES YES YES YES YES YES YES YES	PATIBLE NO NO NO NO NO NO SS/AIR
NOT CHECKED, REASO SELECT: e.g. % MISS IN INSPECTION FOR F-9 COVERS T  REVIOUS CARGOES: TANK# T  C SPENT CA	SING % DISCOLO HE CLEANLINESS OF T HIRD LAST AUSTIC	ORED %F	SECOND	CCEPTABI FABILITY IN RI LAST	LE etc. (AL	L. T CAUS	PRES YES YES	SSED WIT	COM  YES  YES  YES  YES  YES  YES  YES  PRESSUR  PRESSUR	PATIBLE NO NO NO NO NO NO SS/AIR
F NOT CHECKED, REASO SELECT: e.g. % MISS JR INSPECTION FOR F-9 COVERS T PREVIOUS CARGOES: TANK# T IC SPENT CA  INES - PUMPS: NAME N	SING % DISCOLO HE CLEANLINESS OF THE CLEANLINESS OF THE CLEANLINESS OF THE CLEANLINESS OF THE CARGO	ORED %F	SECOND NT CAUSTIC	LAST C USED FOI	SPEN	L. T CAUS	PRES YES YES YES YES	SSED WIT  NO NO NO NO	COM  YES  YES  YES  YES  YES  YES  YES  PRESSUR  PRESSUR  PRESSUR  PRESSUR	PATIBLE NO NO NO NO NO SS/AIR
F NOT CHECKED, REASO SELECT: e.g. % MISS JR INSPECTION FOR F-9 COVERS T PREVIOUS CARGOES: TANK# T IC SPENT CA	SING % DISCOLO HE CLEANLINESS OF THE CLEANLINESS OF THE CLEANLINESS OF THE CLEANLINESS OF THE CARGO	ORED %F	SECOND NT CAUSTIC	LAST C USED FOI	SPEN	L. T CAUS	PRES YES YES YES YES	SSED WIT  NO NO NO NO	COM  YES  YES  YES  YES  YES  YES  YES  PRESSUR  PRESSUR  PRESSUR  PRESSUR	PATIBLE NO NO NO NO NO NO SS/AIR
F NOT CHECKED, REASO SELECT: e.g. % MISS JR INSPECTION FOR F-9 COVERS T PREVIOUS CARGOES: TANK# T IC SPENT CA  INES - PUMPS: NAME N	HIRD LAST AUSTIC	ORED %F	SECOND NT CAUSTIC	LAST C USED FOI	SPEN' SPEN' AINED BY VISUA	L. T CAUS	PRES YES YES YES YES	SSED WIT  NO NO NO NO	COM  YES  YES  YES  YES  YES  YES  YES  PRESSUR  PRESSUR  PRESSUR  PRESSUR	PATIBLE NO NO NO NO NO NO SS/AIR

9	Page 1 of
PORT / TERMINAL: LAKE CHARLE / CITGO	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 7 VOY #:	INSPECTOR(S): BELLON
DATE: 11/4/2008	SGS FILE: 119101
CARGO: SPENT CAUSTIC	CLIENT: CES Environmental REF: TBD
SGS TANK CLEAN	LINESS INSPECTION OIL Gas & Chemicals Services Division.
✓ AT LOADING □ AT TRANSFER □ AT DISCHARGE	AS INSPECTION ONLY AS PRE-INSPECTION WITH CUSTODY TRANSFER
USE A SEPARATI	E FORM F-9 PER INSPECTION
THIS IS THE FIRST SECOND	TH INSPECTION
TANK(S): 1-3C	
BASED ON SUBMITTED INFORMATION (SEE LIRE	S F-7) AND :
AND USUAL INSPECTION	PHERE STATEMENT BELOW MUST BE COMPLETED PRIOR TO ENTRY)  LYTICAL REPORT ON FILE)
₩ WERE ACCEPTED FOR CLEANLINESS TO CARRY A	CARGO OF SPENT CAUSTIC
WERE REJECTED FOR CLEANLINESS TO CARRY A C	CARGO OF
SHIP'S STAFF AND/OR SGS SUPERVISOR AND/O	R CLIENT NOTIFIED ON BY
INSPECTION COMPLETED AT 14:30 HRS ON TH	
TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING B	BERTH IN CASE OF PRE-INSPECTION
SIGNATURES :	STEVE BELLON
FOR VESSEL	FOR TERMINAL INSPECTOR
* IS THIS TANK ACCEPTANCE BASED SOLELY ON SUBMITTED	D INFORMATION EVALUATION ? YES NO
IF YES; ISSUE N.O.A.D. AND INFORM YOUR SGS SUPE	RIVISOR AND/OR CLIENT(S) IMMEDIATELY.
TANK SAFE AT e undersigned certifies that those tank(s) indicated on li corted on the reverse side of the SGS F-7 and that the ta e undersigned hereby grants permission for SGS persor	nk(s) in question are in all respects safe for entry.
Tank Safe Atmosphere Statement signed	hours on
SIGNATURES :	
FOR VESSEL PRINT NAME (S) :	FOR TERMINAL
	ANK SAFE ATMOSPHERE STATEMENT is not signed rvisor for further instructions.
oyright SGS-OG&C 1995 - Rev Oct 2003	Services rendered according to published General Terms and Condition

		Page 1 of
PORT/TERMINAL:	LAKE CHARLE / CITGO	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 7	VOY#:	INSPECTOR(S): BELLON
DATE: 11/4/2008		SGS FILE: 119101
CARGO: SPENT C	AUSTIC	CLIENT: CES Environmental REF: TBD
SGS	CARGO	Oil Gas & Chemicals Services Division.
AT LOADING	AT TRANSFER AT DISCHARGE	☐ RESIDUAL ☐ CLEAN PRODUCTS ☑ CHEMICALS/GASES
ABOVE VESSEL WIL	L 🔽 LOAD 🗌 DISCHARGE	AT THIS TERMINAL AT (SPECIFY):
AS PER 🗀 CHA	RTER PARTY 🔲 AMENDED C/P 🗹 PR	INCIPAL'S INSTRUCTIONS OTHER (SPECIFY)
FOLLOWING QUANT	TTY(S) OF SPENT CAUSTIC	
(	,	T POUNDS OTHER (SPECIFY)
OR: (	10000 ) 🗹 BBLS 🗍 M	13 OTHER AT STD. TEMP OBSERV. TEM
THIS QUANTITY(S) IS	·	OR MINUS OTHER (SPECIFY) APPROX.
*PLUS OR MINUS	%" IS THE OPTION OF	VESSEL TERMINAL CLIENT
*PLUS OR MINUS	%" IS OPTED FOR BY	VESSEL TERMINAL CLIENT
THE ABOVE QU	JANTITY(S): - WILL BE DETERMINE	D BY SHIP'S STOP SHORE STOP
	• •	/ DISCHARGED FROM TANK(S) 182
		DED INTO TANK(S) 1-3C
/ESSEL'S CO-MINGL		
CARGO REQUIRES		EPARATION
Ando negoines	SEGREGATION S	EPARATION DIVOLOME FAIC BLENDING
SIGNATURES)	VESSEL'S STAFF:	DATE: 11/4/2008 TIME: 14:40
<del></del>	L REPRESENTATIVE :	DATE: 11/4/2008 TIME: 14:40
	INSPECTOR: STEVE BELLON	DATE: 11/4/2008 TIME: 14:40
ARE STOP GAUGES :		
		TERMINAL / VESSEL YES V NO
OCHARVO.	- WITNESSEI	D BY INSPECTOR YES V NO
REMARKS:		
	<u> </u>	
TERMINAL I		MENTS WHEN REQUIRED BY OUR CLIENTS; HOWEVER, VESSEL AND SERVATION OF STOP GAUGES, VALVE SETTING AND PUMPING INTO AND OUT
(2) OUR \$1	ITS AND TESTED IN OUR LABORATORIES. HOWEV	AATIONS. VOLUMETRIC OR WEIGHT COMPOSITES CAN BE PREPARED FROM FER, DUE TO THE INHERENT DIFFICULTY IN ACHIEVING A HOMOGENEOUS
	END IN TANKS AND SAMPLES, SGS CANNOT ACCE	ET ART RESPONSIBILITY.
		Services rendered according to published General Terms and Cond



To: Jenny Rust SGS REF NO: 129575

CES ENVIRONMENTAL REF#

### **SUMMARY OF FINDINGS**

#### **OPERATION**

DISCHARGE FROM THE CCL-7 TO SHORE TANK 501 AT KMTEX, PORT ARTHUR, TX on 1/31/2009 OF A CARGO DESCRIBED AS SULFIDIC CAUSTIC

#### QUANTITY

		DELIVERED (1)	RECEIVED (2)	DIFFERENCE	PERCENT
TOV	BARRELS	7,461.86	7,443.05	18.81	0.25
	U.S. GALLONS	313,398.00	312,608.06	789.92	0.25

- Delivered quantity based on barge figures
   Received quantity based on shore tank(s) TANK 501
   Arrival: 7,461.86 GSV BBLS
   ROB: 0.00 GSV BBLS

### TIME LOG

THREE LOC	7	
1/31/2009		BARGE DOCKED
	14:00	INSPECTOR NOTIFIED
	16:00	ARRIVED AT KMTEX
	16:30	GAUGED S/T 501 OPEN
	16:40	COMMENCED PRE-DISCHARGE INSPECTION
	17:10	COMPLETED PRE-DISCHARGE INSPECTION
	17:15	COMMENCED CALCULATIONS
	17:30	CARGO HOSE CONNECTED
	17:30	COMPLETED CALCULATIONS; NOTIFIED DISPATCH OF TRANSIT DIFFERENCE
		GREATER THAN 0.2%
	17:45	INSPECTOR DEPARTED
	17:55	COMMENCED DISCHARGE
	20:50	INSPECTOR NOTIFIED
	21:30	COMPLETED DISCHARGE
	21:40	ARRIVED AT KMTEX
	21:45	COMMENCED POST-DISCHARGE INSPECTION
	21:55	COMPLETED POST-DISCHARGE INSPECTION
	21:55	GAUGED S/T 501 CLOSED
	22:10	CARGO HOSE DISCONNECTED
	22:25	INSPECTOR DEPARTED
		··· -· · · · · · · · · · · · · ·

Darren W. Le Blanc Date: 2/2/2009

SGS North America Inc. Oil, Gas & Chemicals Services t(727-1035) www.sgs.com Member of the SGS Group (Société Générale de Surveillance)



Shore volume calculated in accordance with:

Vessel volume calculated in accordance with:

TOV TOV

Definition of Terms as per MPMS Chapter 1.

Procedures as per applicable MPMS Chapter 3.1a, 7, 8.1 or 8.2, 12.1 or 12.2, 17.1, 17.2, 17.4.

DISCLAIMER

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### Inspection Report (LOADING)

Subject: CCL 7

Date:

1/16/2009

Our ref.: 127972

Product: SPENT CAUSTIC

Client ref.: TBD

Location: CITGO LAKE CHARLES

Client: CES ENVIROMENTEL

Summary of Figures	Bbls @ 60°F	Gallons @ 60°F	Long Tons	Metric Tonnes	Pounds
Shore Measurements  Total Shore figures delivered GSV  Average API Gravity @ 60°F  Shoretanks no(s): TANK 182	7,624.20	320,216.40			
Vessel's Measurements					
Vessel's figures before loading (OBQ) Free Water	0.00				
Vessel's figures before loading (OBQ) Liquid	0.00				
Vessel's figures before loading (OBQ) Non Liquid	0.00				
Vessel's figures before loading (OBQ) Total	0.00	0.00			
Vessel's figures TCV on board after loading	7,725.27	324,461.34			
Vessel's figures TCV loaded	7,725.27	324,461.34			
Vessel's figures Free Water loaded	0.00	0.00			
Vessel's figures GSV loaded	7,725.27	324,461.34			

Cargo stowage Cargo tanks no(s):

CCL 7[1C, 2C, 3C]

### Samples

SHORE TANK - 2X1 QUART RUNNING

BARGES - 2X1 QUART RUNNING PER CARGO TANK

# Time Log

1/14/2009	1435	INSPECTOR NOTIFIED
	1530	INSPECTOR ARRIVED
	1540	COMMENCED OBQ INSPECTION
	1550	COMPLETED OBQ INSPECTION
	1610	SHORE TANK 182 GAUGED, TEMPERATURED and SAMPLED OPEN
	1640	INSPECTOR DEPARTED
	1900	COMMENCED LOADING
1/15/2009	0435	LOADING SUSPENDED
	0455	SHORE TANK 182 GAUGED AND TEMPERATURED CLOSED
	1700	SHORE TANK 182 GAUGED, TEMPERATURED and SAMPLED OPEN
	1705	RESUMED LOAD
	2250	INSPECTOR NOTIFIED
	2330	INSPECTOR ARRIVED
1/16/2009	0030	COMMENCED POSTLOAD DECK INSPECTION
	0030	COMPLETED LOADING (TANKERMAN TERMINATED LOAD @ 9' 6" DRAFT)
	0040	COMPLETED POSTLOAD DECK INSPECTION
	0050	CARGO HOSE DISCONNETCED

SGS North America Inc.

Oil, Gas & Chemicals Services

www.sgs.com

Member of the SGS Group (Société Générale de Surveillance)



0050 0100 SHORE TANK 182 GAUGED and TEMPERATURED CLOSED COMPLETED SHORE / VESSEL CALCULATIONS

BRETT DAIGLE for SGS Oil, Gas & Chemicals Services January 22, 2009

Shore volume calculated in accordance with:

Vessel volume calculated in accordance with:

Procedures as per applicable MPMS Chapter 3.1a, 7, 8.1 or 8.2, 12.1 or 12.2, 17.1, 17.2, 17.4.

Discisimen

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FIRCC REV. January 2007

. •/-	
PORT / TERMINAL: LAKE CHARLE / CITGO	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 7 VOY #:	INSPECTOR(S): BELLON
DATE: 1/14/2009	SGS FILE: 127972
CARGO: SPENT CAUSTIC	CLIENT: CES Environmental REF: TBD

	-	
_		

### **VOYAGE ANALYSIS REPORT**

Oil Gas & Chemicals Services Division.

LOADING V-1	TRANSFER	DISCHARGE	SUMMARY	,	Type of Voyag	e C/P DATE
Lord Dout/Towning/Douth						ł
Load Port remninarbenn	ARRIVED	SAILED	Discharge Port	/Terminal/Berth	ARRIVED	SAILED
LAKE CHARLES / CITGO / C S 1/14/2009						
VOLUME UNITS	SUPPLIER	RECEIVER	VCF SHORE LOA	D VCF SHORE DISC	H VCF VESSEL LOA	D /CF VESSEL DISC
🗹 BBLS 🗌 GALS 🗌 M³ 🔲 L	стдо	CLARK		1		
DESCRIPTION API	TCV	FW	GSV	S&W	NSV	Reference
I. COMPARISON OF SHORE QU	ANTITIES IN CUST	ODY TRANSFER			<u> </u>	
Bill of Lading 1.	7624.20	0.00	7624.20			(1)
Outturn 2.		1				(2)
Diff. 3.						(3)=(2) - (1)
Diff. % 4.					2	(4) = (3) / (1) x 190
Recalc. B/L 5. (a		Recalculate i	f B/L and O/T use	different tables.		(5) (a) Vol. Diff.
II. VESSEL/SHORE QUANTITIES	AT( )LOAD	PORT(S)	And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s			
	7725.27	0.00	7725.27	LIQUID	NON-LIQUID	(A)
OBQ (All) E	3. 0.00	0.00	0.00			(B)
Loaded C	7725.27	0.00	7725.27			(C)=(A) - (B)
Difference D	. 101.07	0.00	101.07			(D)≈(C)-[(1) or (5)]
Difference % E	1.33%		1.33%			(E)=(D)[(1)or(5)]x100
Load Vessel Ratio F						(F)=(C)/[(1)or(5)]
oad VEF G						(G)
Theoretical Shore H	<u> </u>					(H)=(C) / (G)
	-7624.20					(!)=(H) - [(1) or (5)]
Theoretical Shore Diff. %			<u> </u>			(J)=(I)/[(1) or (5)]x100
II. VESSEL/SHORE QUANTITIES	1	IARGE PORT(S)				
/essel Arrival K	<del></del>	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		LIQUID	NON-LIQUID	<b>K</b> )
ROB (All) L				<del> </del>		L)
Discharged M			<u> </u>			(M) = (K) - (L)
Difference N						(N) = (2) · (M)
Difference % O	<u> </u>		<b> </b>			(O) = (N) / (2) × 100
Discharge Vessel Ratio P						(P) = (M) / (2)
Discharge VEF Q						(Q)
heoreticai Shore R						(R) = (M)/(Q)
heoretical Shore Diff. S.						(S) = (2) - (R)
heoretical Shore Diff. % T.						(T) = (S) / (2) x 100
II. VESSEL/'S COMPARISON OF ransit Difference U.	<del></del>	CHANGE PORT(S	VCF TABLE M	UST BE CONSIST	ENI	(U) = (K) - (A)
Difference % V.				LIQUID	NON-LIQUID	(V) = (U) / (A) x 100
BQ/ROB Difference W.	<u> </u>			EIGOID	NON-CIGOID	(W) = (L) - (B)
Difference W.						
DJ TCV DIFF : (Qua	TCV Difference (3) - ntity) / 0.00	08Q (B) + ROS (L)	S&W at Load Por	6&W(1)/GSV(1)]X100	S&W at Disch Po	58W(2)/GSV(2) X100
	0.00		Carr at Load Pol	••	Garrat Discir PO	
omments :	<del></del>	······································				<u> </u>
	I					
repared by : opyright SGS-OG&C June 1997 - Rev O	Title :		Company:	idered according to p	Date Completed :	

PORT / TERMINAL: LAKE CHARL	LE / CITO	3O	OFFICE LA	OFFICE LAKE CHARLES, LA TEL (337) 625-1455							
VESSEL CCL 7	VOY#		INSPECTOR(S): BELLON								
DATE 1/14/2009			SGS FILE 127972								
CARGO SPENT CAUSTIC			CLIENT CE	S ENVIRONMEN	TAL REF	TBD					
SGS		SHORE QUA	NTITY SUMMARY Oil Gas & Chemicals Services Divi								
☑ AT LOADING ☐ AT TRAN	ISFER 🗌	AT DISCHARGE	<b>✓</b> SHORI	E TANK (STATIC)		METER (DYNAMIC					
CUSTODY TRANSFER SAMPLE											
API @ 60°F:		R.D. 60°F/60°F	······································	Dens	ity Lbs/Gal @	l					
8&W % VOL:	·····										
SOURCE OF ANALYTICAL DATA:											
	UNITS	TANK 182	TANK 182		<u></u>						
OTAL CALCULATED VOLUME	BBLS	4320.35	3303.85								
REE WATER	BBLS	0.00	0.00								
GROSS STANDARD VOLUME	BBLS	4320.35	3303.85								
& W VOLUME	BBLS		<u></u>		<del> </del>						
NET) STANDARD VOLUME	BBLS				†						
VCF TABLE (1 )	1					i i					
ROSS STANDARD WEIGHT	1 - 1										
& W WEIGHT											
NET) STANDARD WEIGHT											
· · · · · · · · · · · · · · · · · · ·					1						
			· · · · · · · · · · · · · · · · · · ·	<u>,                                     </u>							
	UNITS			SHORELINE	TOT	AL DELIVERED					
OTAL CALCULATED VOLUME	BBLS				<u> </u>	7624.20					
REE WATER	BBLS					0.00					
ROSS STANDARD VOLUME	BBLS					7624.20					
& W VOLUME	BBLS					<del></del>					
IET) STANDARD VOLUME	BBLS				<del> </del>	<del> </del>					
					<b>₩</b> GSV	NSV SV @					
ROSS STANDARD WEIGHT	<del>                                     </del>				Principle Princip	and Ordered					
& W WEIGHT	<del>  -</del>										
ET) STANDARD WEIGHT	<del>  -</del>					<del></del>					
	<u> </u>				L						
TOWAGE O/B VESSEL: 1-3C	·	······································									
				B/L DATE:							

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PORT / TERMINIAL + LAKE ( 'K	HOLE / OITOO		LOSSIOS 1 4/4	E CHARLES LA	TEL (007)	e 1 of				
<del></del>	HARLE / CITGO		OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455 INSPECTOR(S): BELLON							
VESSEL: CCL 7 DATE: 1/14/2009	VOT #:		SGS FILE: 127972							
CARGO: SPENT CAUSTIC			<del>(</del>	Environmental	REF: TBD					
SGS	V	ESSEL QUA	ANTITY SUMMARY Oil Gas & Chemicals Services Division.							
ATLOADING AT	TRANSFER A	T DISCHARGE	CRUDE	OIL	☐ PROD	ucts				
API @ 60°F:		R.D. 60°F/60°F		Densi	ty Lbs/Gal @					
5&W % VOL:										
OURCE OF ANALYTICAL DA	TA:									
	V	DLUME	WCF		WEIGHT	And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s				
	BBLS	U.S. GALS	(t	POUNDS	LONG TONS	METRIC TONS				
ESSEL'S QUANTITIES	V.E.F. CO	DRRECTED:	YES 🗹	NO	VEF:					
OTAL CALCULATED VOL	7725.27	324461.34				1				
REE WATER	0.00	0.00		W	***************************************	<u> </u>				
GROSS STANDARD VOLUME	7725.27	324461.34			**************************************					
& W VOLUME										
NET) STANDARD VOLUME				<b>†</b>						
<b>☑</b> OBQ		☐ F	ЮВ							
IQUID MATERIAL	0.00	0.00								
ON-LIQUID MATERIAL	0.00	0.00								
REE WATER	0.00	0.00								
OTAL	0.00	0.00				<del></del>				
✓ LOADED QUANTI	TIES	<u> </u>	ISCHARGED QU	ANTITIES		<del> </del>				
OTAL CALCULATED VOL	7725.27	324461.34								
REE WATER	0.00	0.00				· · · · · · · · · · · · · · · · · ·				
ROSS STANDARD VOLUME	7725.27	324461.34								
& W VOLUME						<del></del>				
ET) STANDARD VOLUME										
RE SLOPS INCLUDED IN CAL	CULATIONS	YES	✓ NO	NO	SLOPS ON BOARD					
TOWAGE O/B VESSEL: 1-30	0									
EMARKS:						<u> </u>				

PORT / TERMINAL: LAKE CHARLE / CITGO	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 7 VOY #:	INSPECTOR(S): BELLON
DATE: 1/14/2009	SGS FILE: 127972
CARGO: SPENT CAUSTIC	CLIENT: CES Environmental REF: TBD

SGS

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### TIME LOG

Oil Gas & Chemicals Services Division.

	✓ AT LO	ADING		AT TRA	NSFER				☐ AT	DISCHA	RGE	
	•	YEAR 2009	/ MONTH JAN	FEB MAR	APR MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC
Date	Hour											
1/14	14:35	INSPECT	OR NOTIFIED									
1/44	15:30		OR ARRIVED									
1/14	15:40	COMMEN	ICED OBQ INSPE	CTION								
1/14	15:50	COMPLE	TED OBQ INSPEC	CTION								
1/14	16:10	SHORE T	ANK 182 GAUGE	D, TEMPERATU	RED and SAM	PLED O	PEN					_
1/14	16:40	INSPECT	OR DEPARTED									
1/14	19:00	COMMEN	ICED LOADING									
1/15	04:35	LOADING	SUSPENDED									
1/15	04:55	SHORE T	ANK 182 GAUGE	D AND TEMPER	ATURED CLO	SED						_
1/15	17:00	SHORE T	ANK 182 GAUGE	D, TEMPERATUI	RED and SAMI	PLED OF	PEN	<del></del>				
1/15	17:05	RESUME	D LOAD	······································								
1/15	22:50	INSPECT	OR NOTIFIED			***************************************						
1/15	23:30	INSPECT	OR ARRIVED									
1/16	00:30	COMMEN	ICED POSTLOAD	DECK INSPECT	ION							
1/16	00:30	COMPLET	TED LOADING (TA	NKERMAN TER	MINATED LOA	VD @ 9'	6" DRA	FT)				
1/16	00:40	COMPLET	TED POSTLOAD D	DECK INSPECTI	NC							
1/16	00:50	CARGO H	OSE DISCONNET	CED								
1/16	00:50	SHORE T	ANK 182 GAUGED	and TEMPERA	TURED CLOS	ED		***************************************	***************************************			
1/16	01:00	COMPLET	FED SHORE / VES	SEL CALCULAT	IONS							
									_			
									<del>-</del>			
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							<del></del>	<del></del>				
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Services rendered according to published General Terms and Cond

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PORT / TERMINAL:	LAKE CHAHLI	29	CITGO		OFFICE LAKE		TEL (337) 625-145	)5
VESSEL CCL 7			VOY#	····	INSPECTOR(S):		SGS FILE 127972	
CARGO SPENT C	AUSTIC				CLIENT CESE		REF TBD	
<u>SGS</u>		Ø	SHORI AT LOADING	grams sales	ASUREMENT: TTRANSFER	S (STATIC)  AT DISCHARGE	Oil Gas & Chemicals	Services Division.
SHORETANK #		REF HEI	GHT:		GAUGE UNITS	FT-IN FT T	MM OTHER:	
		IME: 16:10		E: 1/15/2009 T	IME: 4:55		OPEN	CLOSE
OBS. REF. HEIGHT	INNAGE	# WATER INNAGE	OBS. REF. HEIGHT	§ INNAGE	#WATER INNAGE	INSPECTOR:	BELLON	TM
	23-5	0-0		10-0 1/4	0-0	WITNESS:		
						API @ 60ºF		
						SOURCE		
						AMBIENT AIR TEMP	59.0	45.0
	· · · · · · · · · · · · · · · · · · ·					TEMP OF TANK SHELL	65	62
	······································					AVG TEMP (0.1°F)	65.5	64.9
MEASUREMENTS	TAKEN IN ACC	ORDANCE WITH	:			AVG INN / ULL	23-5	10-0 1/4
FREE WATER DE	TERMINED IN A	CCORDANCE WITH	:			AVG WATER INN / ULL	0-0	0-0
# TEMPERATURES	TAKEN IN ACC	ORDANCE WITH	:	API MPMS 7.6.4		VOLUME UNITS BB	LS M3 OTHE	R:
VOLUME CALCUI	LATED IN ACCO	RDANCE WITH	:			TABLE VOLUME "	7509.74	3189.39
PROD TEMP	65.5 x 0	. <b>875</b> = 57.3125	PROD TEMP	64.9 x	<b>0.875</b> = 56.7875	FREE WATER	0.00	0.00
(+) AIR TEMP	59.0 x 0	.125 = 7.3750	(+) AIR TEMP	45.0 x	<b>0.125</b> = 5.6250	OBSERVED VOLUME	7509.74	3189.39
TANK SHELLTEMP	ERATURE:	= 65	TANK SHELL TE	MPERATURE	= 62	TANK SHELL CORR.	1.00000	1.00000
ROOF CORRECTIO	N INFO - STAND	DARD API:	<u> </u>		<b></b>	OBSERVED VOLUME	7509.74	3189.39
CRITICAL ZONE RA	NGE FROM	то	ROOF	EG HIG	H LOW	ROOF CORRECTION	0.00	0.00
		OF	PEN		LOSE	GROSS OBSERVED VOL.	7509.74	3189.39
AVG INN/ULL IN CF	RITICAL ZONE	YES	□ NO	YES	□ NO	^VCF TABLE : (t )	1.00000	1.00000
SIDEGAUGE						GROSS STANDARD VOL.	7509.74	3189.39
TEMPERATURES *		# PROBE	☐ MERCURY	# PROBE	MERCURY	DIFFERENCE	43	320.350
* ACTION TAKEN :			65.5 🗹 L 65.5		M 64.9 L	CUSTODY TRANSFER SAM	IPLE:	· · · · · · · · · · · · · · · · · · ·
	<del></del>	M	· · · · · · · · · · · · · · · · · · ·	l M		API @ 60°F/ DE		
		OTHER*		OTHER*		S&W% VOL.		
SIDETEMP/REMOT	E					S & W VOLUME		
PROBE WAS CHE		USE YES	NO	NOT USED		NET STANDARD VOLUME		
SAMPLING		70 u 01			M DL	WCF TABLE ; (t )		
* ACTION TAKEN	•	<u></u>		T D		GROSS STANDARD WT.		
		OTHER*		OTHER*		NET STANDARD WEIGHT		
AT ULLAGES :						WEIGHT UNITS LT	MT LBS	OTHER:
ECKED:	······································	Ref TSh Temp :	60	OP TEMP :		** IS TABLE VOLUME IN	BBLS M3	OTHER:
Dyright SGS-OG&C	2001 - Rev April 2			1 0			red according to publishe	

F-10 Page 2 of 2 PORT / TERMINAL: LAKE CHARLES / CITGO OFFICE LAKE CHARLES, LA TEL (337) 625-1455 VOY# VESSEL CCL 7 INSPECTOR(S): JOE BUSBY **SGS FILE** 127972 CARGO SPENT CAUSTIC CLIENT CES Environmental REF TBD SHORE TANK MEASUREMENTS (STATIC) **✓** AT LOADING AT TRANSFER AT DISCHARGE Oil Gas & Chemicals Services Division. SHORETANK # **REF HEIGHT: GAUGE UNITS** FT-IN FT MM OTHER: OPEN DATE: 1/15/2009 TIME: 17:00 CLOSE DATE: 1/16/2009 TIME: 0:50 **OPEN** CLOSE OBS. REF. HEIGHT & WATER INNAGE OBS. REF. HEIGHT & INNAGE INNAGE **WATER INNAGE** INSPECTOR: JOE BUSBY JOE BUSBY 18-0 1/4 7-9 5/16 0-0 0-0 WITNESS: API @ 60°F/ DENS. @ 15° SOURCE AMBIENT AIR TEMP TEMP OF TANK SHELL 57 54 65.0 62.0 AVG TEMP (0.5°F) S MEASUREMENTS TAKEN IN ACCORDANCE WITH 18-0 1/4 7-9 5/16 AVG INN / ULL * FREE WATER DETERMINED IN ACCORDANCE WITH : 0-0 0-0 AVG WATER INN / ULL # TEMPERATURES TAKEN IN ACCORDANCE WITH **API MPMS 7.6.4 VOLUME UNITS** BBLS M3 OTHER VOLUME CALCULATED IN ACCORDANCE WITH TABLE VOLUME ** 5769.39 2465.54 PROD TEMP PROD TEMP **FREE WATER**  $64.9 \times 0.875 =$ 56.7875 62.0 x 0.875 = 54.2500 0.00 0.00 (+) AIR TEMP (+) AIR TEMP **OBSERVED VOLUME** 5769.39 2465.54 x = 0.125 =x 0.125 =TANK SHELLTEMPERATURE: TANK SHELL TEMPERATURE TANK SHELL CORR. 0.99996 1.00000 **OBSERVED VOLUME** ROOF CORRECTION INFO - STANDARD API: 5769.16 2465.54 ROOF CORRECTION 0.00 0.00 CRITICAL ZONE RANGE FROM TO **ROOF LEG** HIGH LOW **OPEN** CLOSE GROSS OBSERVED VOL. 5769.16 2465.54 YES NO YES NO 1.00000 1.00000 AVG INN/ULL IN CRITICAL ZONE VCF TABLE : (t **GROSS STANDARD VOL.** 5769.16 2465.54 SIDEGAUGE DIFFERENCE 3303,620 # PROBE MERCURY PROBE **TEMPERATURES °F** MERCURY * ACTION TAKEN : ✓ U 64.9 ✓ M 64.9 ✓ I 64.9 M 62 🗌 L **CUSTODY TRANSFER SAMPLE:** ... M _ M API @ 60°F/ DE S & W % VOL. OTHER* OTHER* SIDETEMP/REMOTE S & W VOLUME **NET STANDARD VOLUME** NO NOT USED PROBE WAS CHECKED PRIOR TO USE YES SAMPLING L. u М L U M WCF TABLE: (t * ACTION TAKEN : GROSS STANDARD WT. R T ГВ R T **NET STANDARD WEIGHT** OTHER* OTHER* AT ULLAGES : **WEIGHT UNITS** LT LT MT LBS OTHER:

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** IS TABLE VOLUME IN

BBLS

M3

Services rendered according to published General Terms and Conditions

OTHER:

BD 18005

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Ref TSh Temp: 60

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ESSEL:	CCL 7			VOY :	<u>f:</u>		INSPECTOR(S):	JOE BUSE	Υ	SGS FILE: 12	7972		
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VESSEL: CCL 7	VOY#:		INSP	ECTOR	(S): BEL	LON				·	
DATE: 1/14/2009			SGS	FILE:	127972						
CARGO: SPENT CAUSTIC	,		CLIE	NT: C	ES Enviro	nment	al	R	EF:	TBD	
SGS	INF	ORMATION	FOR CLE	ANLIN	IESS INS				hemi	cals Services D	ivision.
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PLEASE PRINT NAME(S)											
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F-9	Page 1 of 1
PORT / TERMINAL: LAKE CHARLE / CITGO	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 7 VOY #:	INSPECTOR(S): BELLON
DATE: 1/14/2009	SGS FILE: 127972
CARGO: SPENT CAUSTIC	CLIENT: CES ENVIRONMENTAL REF:
SGS TANK CLEAN	ILINESS INSPECTION Oil Gas & Chemicals Services Division.
$lacktriangledown$ at Loading $\Box$ at Transfer $\Box$ at Discharge	AS INSPECTION ONLY  AS PRE-INSPECTION  WITH CUSTODY TRANSFER
USE A SEPARAT	TE FORM F-9 PER INSPECTION
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TANK(S): 1-3C	
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INSPECTION COMPLETED AT 15:50 HRS ON THE	HE 1/14/2009 3
TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING	BERTH IN CASE OF PRE-INSPECTION 3
	33
SIGNATURES :	STEVE BELLON 3
FOR VESSEL	FOR TERMINAL INSPECTOR 34
IS THIS TANK ACCEPTANCE BASED SOLELY ON SUBMITTE	
F YES; ISSUE N.O.A.D. AND INFORM YOUR SGS SUPI	ERVISOR AND/OR CLIENT(S) IMMEDIATELY.
TANK SAFE A	TMOSPHERE STATEMENT 38
	line 13 of this page have been cleaned and gas freed as
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e undersigned hereby grants permission for SGS perso	
	42
Tank Safe Atmosphere Statement signed	hours on 43
SIGNATURES :	44
FOR VESSEL	FOR TERMINAL
PRINT NAME (S):	FOR TERMINAL
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and contact your supe gright SGS-OG&C 1995 - Rev Oct 2003	ervisor for further instructions.  Services rendered according to published General Terms and Condition
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F-14	Page 1 of 1
PORT/TERMINAL: LAKE CHARLE / CITGO	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 7 VOY #:	INSPECTOR(S): BELLON
DATE: 1/14/2009	SGS FILE: 127972
CARGO: SPENT CAUSTIC	CLIENT: CES Environmental REF: TBD
SGS	O QUANTITY OPTION Oil Gas & Chemicals Services Division.
✓ AT LOADING ☐ AT TRANSFER ☐ AT DISCHARGE	☐ RESIDUAL ☐ CLEAN PRODUCTS ☑ CHEMICALS/GASES
ABOVE VESSEL WILL V LOAD DISCHARGE	AT THIS TERMINAL AT (SPECIFY):
AS PER CHARTER PARTY AMENDED C/P V P	PRINCIPAL'S INSTRUCTIONS OTHER (SPECIFY)
FOLLOWING QUANTITY(S) OF SPENT CAUSTIC	
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*PLUS OR MINUS %" IS THE OPTION OF	S OR MINUS  OTHER (SPECIFY) LOAD TO DRAFT  VESSEL  TERMINAL  CLIENT
*PLUS OR MINUS %" IS OPTED FOR BY	☐ VESSEL ☐ TERMINAL ☐ CLIENT
	ED BY SHIP'S STOP SHORE STOP  D / DISCHARGED FROM TANK(S) 182  ADED INTO TANK(S) 1-3C
/ESSEL'S CO-MINGLING ACCEPTABLE TO OUR PRINCIPA	
	SEPARATION VOLUMETRIC BLENDING
SIGNATURES) VESSEL'S STAFF:	DATE: 1/14/2009 TIME: 16:20
TERMINAL REPRESENTATIVE :	DATE: 1/14/2009 TIME: 16:20
INSPECTOR: STEVE BELLON	DATE: 1/14/2009 TIME: 16:20
RE STOP GAUGES : - TAKEN BY	YINSPECTOR YES V NO
-TAKEN BY	TERMINAL / VESSEL YES V NO
- WITNESSI	ED BY INSPECTOR YES V NO
EMARKS:	
	REMENTS WHEN REQUIRED BY OUR CLIENTS; HOWEVER, VESSEL AND BSERVATION OF STOP GAUGES, VALVE SETTING AND PUMPING INTO AND OUT
(2) OUR STAFF IS AVAILABLE TO ADVISE IN BLENDING OPE COMPONENTS AND TESTED IN OUR LABORATORIES. HOWE STABLE BLEND IN TANKS AND SAMPLES, SGS CANNOT ACC	ERATIONS. VOLUMETRIC OR WEIGHT COMPOSITES CAN BE PREPARED FROM EVER, DUE TO THE INHERENT DIFFICULTY IN ACHIEVING A HOMOGENEOUS CEPT ANY RESPONSIBILITY.
pyright SGS-OG&C 1995 - Rev Oct 2003	Services rendered according to published General Terms and Conditions
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255, nsb-ba



To: Jenny Rust SGS REF NO: 140689

## CES REF#

#### **SUMMARY OF FINDINGS**

### **OPERATION**

DISCHARGE FROM THE CCL 26 TO SHORE TANK 607 AT KMTEX, PORT ARTHUR, TX ON 5/7/2009 OF A CARGO DESCRIBED AS SPENT CAUSTIC

### **QUANTITY**

		DELIVERED (1)	RECEIVED (2)	DIFFERENCE	PERCENT
TOV	BARRELS	2,032.45	2,050.93	-18.48	0.90
	U.S. GALLONS	85,362.90	86,139.00	-776.10	0.90

- Delivered quantity based on barge figures
   Received quantity based on shore tank(s) 607
   Arrival: 2,032.45 GSV BBLS
   ROB: 0.00 GSV BBLS

#### TIME LOG

HIME FOO	7	
5/7/2009	09:30	INSPECTOR NOTIFIED
	10:30	INSPECTOR INFORMED BARGE NOT ARRIVE YET
	11:30	INSPECTOR RENOTIFIED
	11:45	BARGE ARRIVED
	12:00	BARGE DOCKED
	12:45	CARGO HOSE CONNECTED
	14:00	INSPECTOR ARRIVED
	14:05	COMMENCED INSPECTION OF CARGO
	14:15	COMPLETED INSPECTION OF CARGO
	14:40	SHORE TANK 607 GAUGED OPEN
	15:00	COMMENCED DISCHARGE
	15:55	COMPLETED DISCHARGE
	15:55	COMMENCED INSPECTION OF CARGO TANKS
	16:00	COMPLETED INSPECTION OF CARGO TANKS
	16:30	CARGO HOSE DISCONNECTED
	16:30	SHORE TANK 607 GAUGED CLOSED
	16:35	BARGE RELEASED
	17:00	INSPECTOR DEPARTED

Darren W. Le Blanc Date: 5/8/2009

SGS North America Inc.

Oil, Gas & Chemicals Services

t(409-727-1035) www.sgs.com

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Shore volume calculated in accordance with: **TOV**Vessel volume calculated in accordance with: **TOV**Definition of Terms as per MPMS Chapter 1.
Procedures as per applicable MPMS Chapter 3.1a, 7, 8.1 or 8.2, 12.1 or 12.2, 17.1, 17.2, 17.4.

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### Inspection Report (Loading)

Subject: CCL 26

Date:

12/9/2008

Our ref.: 121871

Product : Spent Caustic

Location : Lake Charles / Citgo

Client ref.: TBD

Client: CES Environmental

**Summary of Figures** 

Bbls @ 60°F Gallons @ 60°F

**Shore Measurements** 

GSV

333,273.36

Total Shore figures delivered Average API Gravity @ 60°F

7,935.08

Shoretanks no(s):

**TANK 185** 

**Vessel's Measurements** 

Vessel's figures before loading (OBQ) Free Water 0.00 Vessel's figures before loading (OBQ) 0.00 Vessel's figures before loading (OBQ) Non Liquid 0.00 Vessel's figures before loading (OBQ) 0.00

0.00 Vessel's figures TCV on board after loading 334,682.88 7,968.64 Vessel's figures TCV loaded 7,968.64 334,682.88 Vessel's figures Free Water loaded 0.00 0.00 Vessel's figures GSV loaded 7,968.64 334,682.88

Cargo stowage Cargo tanks no(s):

CCL 26[1C, 2C, 3C]

### Samples - Shore Tank 1x1 Quart Running

Barges - 2x1 Quarts Running Per Cargo Tank

### **Time Log**

12/8/2008	1655	INSPECTOR NOTIFIED
	1800	INSPECTOR ARRIVED
	1845	CARGO HOSE CONNECTED
	1910	S/T 185 GAUGED OPEN AND SAMPLED
	1945	COMMENCED PRE-DECK INSPECTION
	1950	COMPLETED PRE-DECK INSPECTION
	2015	COMMENCED LOADING
	2045	DOWN FOR LINE-DISPLACEMENT
	2055	RESUMED LOADING
12/9/2008	1850	COMPLETED LOADING
	1910	CARGO HOSE DISCONNECTED
	1930	INSPECTOR NOTIFIED
	2020	INSPECTOR ARRIVED
	2050	S/T 185 GAUGED CLOSED
	2110	COMMENCED FINAL INSPECTION
	2140	COMPLETED FINAL INSPECTION

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Steve Cross

for SGS Oil, Gas & Chemicals Services

12/10/2008

Shore volume calculated in accordance with:

ASTM D 1250-04

Vessel volume calculated in accordance with:

Procedures as per applicable MPMS Chapter 3.1a, 7, 8.1 or 8.2, 12.1 or 12.2, 17.1, 17.2, 17.4.

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FIRCC REV. January 2007

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PORT / TERMINAL: Lake Charles, La / Citgo	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 26 VOY#:	INSPECTOR(S): TM
DATE: 12/9/2008	SGS FILE: 121871
CARGO: Spent Caustic	CLIENT: REF:

SGS

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### TIME LOG

<u> </u>		THRE LOG	Oil Gas & Chemicals Services Division.
AT LOADING		DING AT TRANSFER	AT DISCHARGE
	Yi	EAR 2008 / MONTH JAN FEB MAR APR MAY JU	N JUL AUG SEP OCT NOV DE
ate	Hour		
2/8	16:55	INSPECTOR NOTIFIED	
2/8	18:00	INSPECTOR ARRIVED	
2/8	18:45	CARGO HOSE CONNECTED	
2/8	19:10	S/T 185 GAUGED OPEN AND SAMPLED	
2/8	19:45	COMMENCED PRE-DECK INSPECTION	
2/8	19:50	COMPLETED PRE-DECK INSPECTION	
2/8	20:15	COMMENCED LOADING	
2/8	20:45	DOWN FOR LINE-DISPLACEMENT	
2/8	20:55	RESUMED LOADING	
2/9	18:50	COMPLETED LOADING	
2/9	19:10	CARGO HOSE DISCONNECTED	
2/9	19:30	INSPECTOR NOTIFIED	
2/9	20:20	INSPECTOR ARRIVED	
2/9	20:50	S/T 185 GAUGED CLOSED	
2/9	21:10	COMMENCED FINAL INSPECTION	
2/9	21:40	COMPLETED FINAL INSPECTION	
DE	LAYS AND	STOPPAGES:	
	ADMITTAL	RE SUBMITTED TO US.	TIME LOG PAGE 1 OF 1

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IEL:	(337) 62	5-1455		

PORT / TERMINAL: Lake Charles, La / Citgo	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 26 VOY #:	INSPECTOR(S): TM
DATE: 12/9/2008	SGS FILE: 121871
CARGO: Spent Caustic	CLIENT: REF:

GCG

### VOYAGE ANALYSIS REPORT

✓ LOADING	V-V 1	TRANSFER	DISCHARGE	SUMMARY		Type of Voyage	C/P DATE
Load Port/Terminal/Berth		ARRIVED	SAILED	Discharge Port/T	erminal/Berth	ARRIVED	SAILED
L.C./ CITGO/ C-SLIP		12/8/2008	12/9/2008				
VOLUME UNITS		SUPPLIER	RECEIVER	VCF SHORE LOAD	VCF SHORE DISCH	VCF VESSEL LOAD	VCF VESSEL DISC
☑ BBLS ☐ GALS ☐ M³	o L						
DESCRIPTION API/DEN	SITY	TCV	FW	GSV	S&W	NSV	Reference
I. COMPARISON OF SHORI	E QUA		ODY TRANSFER				
Bill of Lading 1.		7935.08	0.00	7935.08			(1)
Outturn 2.							(5)
Diff. 3.							(3)=(2) - (1)
Oiff. % 4.							(4) = (3) / (1) x 100
lecalc. B/L 5.	(a)		Recalculate is	B/L and O/T use d	ifferent tables.		(5) (a) Vol. Diff.
I. VESSEL/SHORE QUANT	ITIES /	AT( )LOAD	PORT(S)				
essel Sailing	A.	7968.64	0.00	7968.64	LIQUID	NON-LIQUID	(A)
OBQ (All)	₿.	0.00	0.00	0.00	0.00	0.00	(B)
Loaded	C.	7968.64	0.00	7968.64			(C)=(A) - (B)
Difference	D.	33.56	0.00	33.56			(D)=(C)-[(1) or (5)]
Difference %	Ē.	0.42%		0.42%			(E)=(D)/[(1)or(5)]x106
oad Vessel Ratio	F.	1.0042					(F)=(C)/[(1)or(5)]
oad VEF	G.	0.00000					(G)
heoretical Shore	Н.	0.00					(H)≔(C) / (G)
heoretical Shore Diff.	1.	-7935.08					(l)=(H) - [(1) or (5)]
heoretical Shore Diff. %	J.	-100.00%					(J)=(I)/[(1) or (5)]x100
I. VESSEL/SHORE QUANTI	TIES A	AT ( ) DISCH	ARGE PORT(S)				_
essel Arrival	K.				LIQUID	NON-LIQUID	(K)
ROB (All)	L.						(r)
Discharged	M.						(M) = (K) - (L)
Difference	N.						(N) = (2) - (M)
Difference %	0.						(O) = (N) / (2) x 100
ischarge Vessel Ratio	P.						(P) = (M) / (2)
ischarge VEF	Q.						(Q)
heoretical Shore	R.						(R) = (M) / (Q)
heoretical Shore Diff.	S.						(S) = (2) - (R)
heoretical Shore Diff. %	<del>T.</del>						(T) = (S) / (2) x 100
II. VESSEL/S COMPARISOI	VOFL	OADING AND DIS	CHARGE PORT(S	) VCF TABLE M	UST BE CONSIST	ENT	
ransit Difference	U.						(U) = (K) - (A)
Difference %	٧.				LIQUID	NON-LIQUID	(V) = (U) / (A) x 100
BQ/ROB Difference	W.			†			W) = (L) - (B)
DJ TCV DIFF :	(Quan	\ ·	OBQ (B) + ROB (L)	[S S&W at Load Port	&W(1)/GSV(1)]X100	[S S&W at Disch Por	s&W(2)/GSV(2)]X10 rt:
Comments :							
				······································			
		Marie 1		lo		Data Carrier	10/0/000
Prepared by: TIM MC DON	ALU	Title: INS	SPECTOR	Company :	SGS	Date Completed :	12/9/2008

F-1					Pag	e tot t				
PORT / TERMINAL: Lake Charles,	La / Citg	0	OFFICE LAN	(E CHARLES, LA	TEL (337)	325-1455				
VESSEL CCL 26	VOY#		······	INSPECTOR(S): TM						
DATE 12/9/2008			SGS FILE 121871							
CARGO Spent Caustic			CLIENT		REF					
SGS		SHORE QUAI	NTITY SUMN		ias & Chemicals Se	rvices Division.				
AT LOADING AT TRANS	SFER 🗌	AT DISCHARGE	SHORE	TANK (STATIC)	☐ METE	R (DYNAMIC)				
CUSTODY TRANSFER SAMPLE										
API @ 60°F:		R.D. 60°F/60°F		Densit	y Lbs/Gal @					
S&W % VOL:										
SOURCE OF ANALYTICAL DATA:										
	UNITS	TANK 185	TANK/METER	TANK/METER	TANK/METER	TANK/METER				
TOTAL CALCULATED VOLUME	BBLS	7935.08	,, 11 41 V (4) L. C. C. I	TO SECULOR SECTION	, , ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	., ., ., ., ., ., ., ., ., ., ., ., ., .				
FREE WATER	BBLS	0.00								
GROSS STANDARD VOLUME	BBLS	7935.08								
S & W VOLUME	BBLS			i						
(NET) STANDARD VOLUME	BBLS									
WCF TABLE (I )										
GROSS STANDARD WEIGHT	LBS									
S & W WEIGHT	LBS									
(NET) STANDARD WEIGHT	LBS									
	UNITS	TANK/METER	TANK/METER	SHORELINE	TOTAL DE	LIVERED				
TOTAL CALCULATED VOLUME	BBLS				793	5.08				
FREE WATER	BBLS				0.0	00				
GROSS STANDARD VOLUME	BBLS				7938	5.08				
S & W VOLUME	BBLS									
(NET) STANDARD VOLUME	BBLS									
					GSV 🗌 NSV	□ sv @				
GROSS STANDARD WEIGHT	LBS									
S & W WEIGHT	LBS				· ************************************					
(NET) STANDARD WEIGHT	LBS				<del></del>					
	<u></u> 1		<u>.</u>		<del></del>					
STOWAGE O/B VESSEL: 1-3C	***************************************									
				B/L DATE:						

STOWAGE O/B VESSEL: 1-3C								
			T	B/L DA	ΓE:			
REMARKS	QUANTITY CONFIRMED	QUANTITY CHANGES		YES	NO	IF YES STATE REASON		
with	of							
with	of		*****	·····				
Date	Time							

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F-2						Pag	e in the second		
PORT / TERMINAL: Lake Charl			<del></del>		CHARLES, LA	TEL: (337) 6	25-1455		
VESSEL: CCL 26	VOY #:		INSPECTOR(S): TM						
DATE: 12/9/2008			SGS FILE: CLIENT:	1218	71	REF:			
CARGO: Spent Caustic			1			ner:			
SGS	VI	ESSEL QUA	NTITYS		ARY Oil G	as & Chemicals Se	rvices Division.		
✓ AT LOADING ☐ AT TE	RANSFER AT	DISCHARGE	CRU	IDE OIL		<b>✓</b> PROD	UCTS		
API@60°F:	II R	I.D. 60°F/60°F			Density	/ Lbs/Gal @			
S&W % VOL:				······································			,,,,,		
SOURCE OF ANALYTICAL DATA	A:	**************************************		······································			<u> </u>		
		DLUME				WEIGHT			
	BBLS	U.S. GALS	(t WC	F )	POUNDS	LONG TONS	METRIC TONS		
VESSEL'S QUANTITIES	V.E.F. CO	RRECTED :	YES	<b>2</b> 1	VO	VEF:	(AIR)		
TOTAL CALCULATED VOL	7968.64	334682.88	3						
FREE WATER	0.00	0.00							
GROSS STANDARD VOLUME	7968.64	334682.88	3		<del></del>				
S & W VOLUME	L. III LUMINA								
(NET) STANDARD VOLUME			<del></del>						
<b>☑</b> OBQ			ROB				······································		
LIQUID MATERIAL	0.00	0.00							
NON-LIQUID MATERIAL	0.00	0.00							
FREE WATER	0.00	0.00							
TOTAL	0.00	0.00				1			
							<u></u>		
LOADED QUANTIT	TES		DISCHARGE	QUAN	TITIES				
TOTAL CALCULATED VOL	7968.64	334682.88			· · · · · · · · · · · · · · · · · · ·	<u> </u>			
FREE WATER	0.00	0.00							
GROSS STANDARD VOLUME	7968.64	334682.88							
3 & W VOLUME				$\dashv$			• · · · · · · · · · · · · · · · · · · ·		
NET) STANDARD VOLUME		<del> </del>							
	OLU ATIONO	<u> </u>				V 000 04: 55:55			
ARE SLOPS INCLUDED IN CALC		YES	✓ NO		L NO S	SLOPS ON BOARD			
STOWAGE O/B VESSEL: 1-30	; 	······································							
REMARKS:		~							

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12/10/07

F-10								Page 1 of 1		
PORT / TERMINA	L: Lake Charles,	La	/ Citgo		OFFICE LAKE	CHARLES, LA <b>TEL</b> (337) 625-1455				
VESSEL CCL 26	i		VOY#		INSPECTOR(S):	TM	SGS FILE 121871			
CARGO Spent C	austic				CLIENT		REF			
CCC			SHOR	E TANK MEA	SUREMENT	S (STATIC)				
<u> </u>	AT LOADING AT TRANSFER AT DISCHARGE Oil Gas & Chemicals Services Division.									
SHORETANK #	185	REF HE	GHT: 42-10-0/0	G	AUGE UNITS	🗸 FT-IN 🗆 FT 🗀	MM COTHER:			
OPEN DAT	E: 12/8/2008 1	IME: 19:10	CLOSE DAT	E: 12/9/2008 TI		OPEN	CLOSE			
OBS. REF. HEIGHT	§ ULLAGE	¤ WATER INNAGE	OBS. REF. HEIGHT	§ ULLAGE	#WATER INNAGE	INSPECTOR:	T. MC DONALD	T. MC DONALD		
42-10-0/0	10-0-1/8	NIL	42-10-0/0	34-8-0/0	NIL	WITNESS:				
						API @ 60ºF/ DENS. @ 15º				
TAPE	10-2-0/0	OIL 3-3-0/0	TAPE	34-9-0/0	OIL 3-3-0/0	SOURCE	TERMINAL	TERMINAL		
вов	0-1-7/8		BOB	0-1-0/0		AMBIENT AIR TEMP	67.0	67.0		
						TEMP OF TANK SHELL	59	59		
						AVG TEMP (0.1°F)	58.3	58.0		
§ MEASUREMENT	IS TAKEN IN ACC	ORDANCE WITH	•	ULLAGE: API MPN	/IS 3.1A.9.3	AVG INNAGE	32-9-7/8	8-2-0/0		
FREE WATER DETERMINED IN ACCORDANCE WITH :				API MPMS 3.1A.10	).1	AVG WATER INNAGE NIL NIL				
# TEMPERATURES TAKEN IN ACCORDANCE WITH :			API MPMS 7.6.4		VOLUME UNITS Y BBI	LS M3 OTHER				
^ VOLUME CALC	ULATED IN ACCO	RDANCE WITH		ASTM D 1250-04		TABLE VOLUME **	10545.29	2610.21		
PROD TEMP	58,3 x (	0.875 = 51.0125	PROD TEMP	58.0 x 0.	<b>875</b> = 50.7500	FREE WATER	0.00	0.00		
(+) AIR TEMP	67.0 x (	0.125 = 8.3750	(+) AIR TEMP	67.0 x 0.	.125 = 8.3750	OBSERVED VOLUME	10545.29	2610.21		
TANK SHELLTEM	PERATURE:	= 59	TANK SHELL TE	MPERATURE	<b>=</b> 59	TANK SHELL CORR.	0.99999	0.99999		
ROOF CORRECTI	ON INFO - STANE	DARD API:				OBSERVED VOLUME	10545.18	2610.18		
CRITICAL ZONE	RANGE FROM	то	ROOF I	EG 🗌 HIGH	Low	ROOF CORRECTION	0.00	0.00		
		OF	EN	CLO	DSE	GROSS OBSERVED VOL. 10545.18 2610.				
AVG INN IN CRITI	CAL ZONE	YES	✓ NO	YES	<b>✓</b> NO	^VCF TABLE ; (t )				
SIDEGAUGE/ATG		32-10-0/0 /	32-9-15/16	8-2	2-0/0	GROSS STANDARD VOL.	**************************************			
TEMPERATURES	δŁ	# PROBE	MERCURY	# Y PROBE	MERCURY	DIFFERENCE	793	5.08		
* ACTION TAKEN	l :	✓ U 58.1 ✓ M	58.3 🗹 L 58.5	✓ U 58.0 M		CUSTODY TRANSFER SAM	PLE:			
		I M		O M		API @ 60ºF/ DE				
		OTHER*		OTHER*		S & W % VOL.				
SIDETEMP/REMO	TE	59	9.0	58	3.6	S & W VOLUME	······································			
PROBE WAS CHE	CKED PRIOR TO	USE Y YES	NO D	NOT USED	······································	NET STANDARD VOLUME		***************************************		
SAMPLING	**************************************	IDU DA	ı OL		n DL	WCF TABLE : (1 )		***************************************		
* ACTION TAKEN	i:	Пт Ов				GROSS STANDARD WT.				
		OTHER*		OTHER*	······································	NET STANDARD WEIGHT				
AT ULLAGES :	·				Minory 1977.	WEIGHT UNITS LT	MT LBS	OTHER:		
CAL DATE:	······································	Ref TSh Temp :	60	OP TEMP :	~····	" IS TABLE VOLUME IN	one the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	OTHER:		
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F-15											Pa	ge 1 of	
PORT/	TERMINAL:	Lake Charles,	La	/ Citg	go		OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455						
VESSEL	:: CCL_26			VOY	#:		INSPECTOR(S):	TM		SGS FILE:	121871		
DATE:	12/9/2	008 <b>CARGO</b> :	Spent Causti	3			CLIENT:			REF:			]
C	CCC VESSEL MEASUREMEN						SYSTEM	✓ OPEN	CLOSE / P	ESTRICTED			
OUO ARRIVAL DE							EPARTURE			Oil Gas 8	Chemicals Se	rvices Division.	
	Y ATL	DADING	AT TRANS	HIPMENT	AT DISCHAR	GE	✓ CARG	O TANKS	BALL	ST TANKS	O NO	N/OTHER CARGO	0
UNITS :	~	FT-IN	FT		MM 🖺	OTHER:		JNITS : 🗹	BBLS	U.S. GALS	M ₃	OTHER:	
TANK#		OBSERVED REFERENCE HEIGHT	¤ ULLAGE	WATER	TEMPERATURES °F  § PROBE	AVG. TEMP	CORRECTED MEASURE	TOTAL OBSERVED VOLUME	FREE WATER	GROSS OBSERVED VOLUME	^ V.C.F.	GROSS STANDARD VOLUME	*
1C	16-2-1/2	16-2-1/2	4-4-1/4	NIL	62	62.0	11-10-1/4	2847.57	0.00	2847.57			
2C	16-2-1/2	16-2-1/2	6-5-0/0	NIL	62	62.0	9-9-1/2	2695.96	0.00	2695.96			
3C	16-2-3/4	16-2-3/4	6-4-3/4	NIL	62	62.0	9-10-0/0	2425.11	0.00	2425.11			
							<u> </u>						
	<u></u>								<u> </u>				
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	<u> </u>	<u> </u>	<u> </u>	,,,,,		<u> </u>			<u> </u>				
		D PRIOR TO USI		S LIN	O L NOT US	ED	TOTALS	7968.64	0.00	7968.64			J
GAUGE	LOCATION	: Y STAND		G.H. on	Expansion Trunk		<del></del>	······································	: w = Wedge	corrected, t =	Trim corrected		
		OTHER					API @ 60F/DE				OURCE :		
	····	······································		rward of Ce	nter A = Aft of Cente	)r 	S&W-VOL%	· :			OURCE :		
SAMPL	ES DRAWN	: 2X1QT PE	R TANK			<del></del>	S&W-VOL:	·	.,	WCF TA	BLE : (t	)	
							NET STANDAR						
		ERMANENT	YES I	FU NO	(SEE F-15 BALLAST	TANKS)	GROSS STANI		Γ				
	CTION SEA						NET STANDAR				······································		
DRAFT	······································	P) 9-6	AFT (P)		LIST :	⁹ (P) / (S)	TOTAL CALC.	VOL. DEPART	URE				
		<b>S)</b> 9-6		9-6		····	REMARKS :		OPP 411-				
SEA	CONDITIO	N: CALM IN F	····	****		······································	VOLUME CALC						
T. MC DONALD								API MPMS 17.2.5.2					

INSPECTOR

STEMPERATURE DETERMINATION IN ACCORDANCE WITH

API MPMS 17.2.5.3

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VESSEL'S STAFF

Page		ijţ	<b>美数</b> 器
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F-16												Pag	e 1 ot 1
PORT/	TERMINAL: L	ake Charles,	La		/ Citgo			OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455					
VESSEL	:: CCL 26	400000000000000000000000000000000000000			VOY #:			INSPECTOR(S): TM SGS FILE: 121871					
DATE:	12/8/20	08 CARGO:	Spen	t Caustic				CLIENT:			REF:		
CI	<b>5</b> C				V	OBQ		ROB MEA	SUREMENT				
DL					NOTE:	DO NOT USE V.	.C.F. IF T	EMPERATURE			Oil Gas 8	& Chemicals Servi	ces Division.
UNITS :		T-IN		FT	MM C		THER:			BLS	U.S. GALS		OTHER:
TANK #	REFERENCE HEIGHT	OBSERVED REFERENC E HEIGHT		OBSERVED INNAGE	FREE WATER INNAGE	NON-LIQUID INNAGE	AVG. TEMP	CORRECTED MEASURE	TOTAL OBSERVED VOLUME	^ V.C.F.	FREE WATER VOLUME	NON-LIQUID	LIQUID VOLUME
1C	16-2-12	16-2-1/2		0-0-0/0	NIL	NIL	60	0-0-0/0	0.00		0.00	0.00	0.00
2C	16-2-1/2	16-2-1/2		0-0-0/0	NIL	NIL	60	0-0-0/0	0.00		0.00	0.00	0.00
3C	16-2-3/4	16-2-3/4	П	0-0-0/0	NIL	NIL	60	0-0-0/0	0.00		0.00	0.00	0.00
			$\dashv$							-			
I^ VC	LUME CALCUI	ATED IN ACCO	RDAN	CE WITH	ASTM D 12	250-04	<u> </u>	TOTALS	0.00		0.00	0.00	0.00
On t	ehalf of our clie		IQUI	bring to your at	tention that in o			d = dip, u = Ullage; corrected measure, w = Wedge corrected, t = Trim corrected  GAUGE LOCATION: ✓ STANDPIPE					corrected
rem	ains on board v	our vessel. To ti				1		* GAUGE PO	OSITION: C = Cen	ter of tank	F ≈ Forward o	of Center A = Aft o	f Center
relat	ionships, this n	naterial belongs	to our	client(s) and si	ould be pumpe			OBQ SAM	PLED 🗌	YES 🗸	NO IF NO	REASON	
		ble to do so plea re to advise our				right to seek							
		e undelivered a ards to flowabil			rv services eyr	ress personal		OBQ TES	TED 🗆	YES 🗸	NO IF NO	REASON	
		sponsibility for S			Ty Services exp	read personial	······	<u> </u>					
		<del> </del>						ROB SAM	PLED [	YES 🗸	NO IF NO	REASON	
								DRAFT:	FWD (P) 1-6		AFT (P) 2-0	LIST	T: ^o (P) / (S)
					TIM N	IC DONALD			(S) 1-6		<b>(\$)</b> 2-0		
VESSEL'S STAFF INSPECTOR						SEA CONDITION: CALM IN PORT							

In tellogge

EPAHO081001824



# Inspection Report (LOADING)

Subject: CCL 26

Date:

12/26/2008

Our ref.: 126337

Product: SPENT CAUSTIC

Location: LAKE CHARLES / CITGO

Client ref.: TBD

Client: CES ENVIRONMENTAL SERVICES

Summary of Figures	Bbls @ 60°F	Gallons @ 60°F	Long Tons	Metric Tonnes	Pounds
Shore Measurements					
Total Shore figures delivered GSV Average API Gravity @ 60°F	8,183.25	343,696.50			
Shoretanks no(s): TANK 182, TANK 182					
Vessel's Measurements					
Vessel's figures before loading (OBQ) Free Water	0.00				
Vessel's figures before loading (OBQ) Liquid	0.00				
Vessel's figures before loading (OBQ) Non Liquid	0.00				
Vessel's figures before loading (OBQ) Total	0.00	0.00			
Vessel's figures TCV on board after loading	8,340.66	350,307.72			
Vessel's figures TCV loaded	8,340.66	350,307.72			
Vessel's figures Free Water loaded	0.00	0.00			
Vessel's figures GSV loaded	8,340.66	350,307.72			

Cargo stowage Cargo tanks no(s):

CCL 26[1-3C]

# **Samples**

SHORE TANK - 2X1 QUART RUNNING BARGES - 2X1 QUART RUNNING PER CARGO TANK

# Quality

NONE

## Time Log

12/24/2008	1320	INSPECTOR NOTIFIED
	1345	BARGE ARRIVED
	1400	BARGE DOCKED AT C-SLIP
	1420	INSPECTOR ARRIVED
	1430	COMMENCED OBQ INSPECTION
	1445	COMPLETED OBQ INSPECTION
	1505	STK 182 GAUGED, SAMPLED, TEMPED OPEN
	1720	HOSE CONNECTED
	1855	COMMENCED LOADING FROM STK 182
12/25/2008	0945	SHUTDOWN / AWAITING AVAILABLE PRODUCT
	1040	STK 182 GAUGED AND TEMPED CLOSED
	1745	STK 182 GAUGED, SAMPLED, TEMPED OPEN
	2015	RESUMED LOADING FROM STK 182

SGS North America Inc.

Oil, Gas & Chemicals Services 4701 E. NAPOLEON SULPHUR, LA 70663 t((337) 625-1455) f((337) 625-1721) www.sgs.com

Member of the SGS Group (Société Générale de Surveillance)



12/26/2008 0020 COMPLETED LOADING / TANKERMAN STOPPED LOAD

0025 COMMENCED CARGO INSPECTION

0040 HOSE DISCONNECTED

0050 COMPLETED CARGO INSPECTION

0130 CALCULATIONS COMPLETED

0200 INSPECTOR DEPARTED

Additional events, Stoppages and Delays

12/25/2008 0945 SHUTDOWN / AWAITING AVAILABLE PRODUCT

1745 STK 182 GAUGED, SAMPLED, TEMPED OPEN

BRETT DAIGLE for SGS Oil, Gas & Chemicals Services 12/29/2008

Shore volume calculated in accordance with: Vessel volume calculated in accordance with:

Procedures as per applicable MPMS Chapter 3.1a, 7, 8.1 or 8.2, 12.1 or 12.2, 17.1, 17.2, 17.4.

Disclaimer

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FIRCC REV. January 2007

F-4	Page 15 of 15
PORT / TERMINAL: LAKE CHARLE / CITGO	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 26 VOY #:	INSPECTOR(S): BELLON
DATE: 12/24/2008	SGS FILE: 126337
CARGO: SPENT CAUSTIC	CLIENT: CES Environmental REF: TBD

# **TIME LOG**

Oil Gas & Chemicals Services Division.

<u></u>	<u>uo</u>		Dil Gas & Chemicals Services Division.
{	ATLOA	ADING AT TRANSFER	AT DISCHARGE
	Y	YEAR 2008 / MONTH JAN FEB MAR APR MAY JUN JU	L AUG SEP OCT NOV DEC
Date	Hour		
2/24	13:20	INSPECTOR NOTIFIED	
2/24	13:45	BARGE ARRIVED	
2/24	14:00	BARGE DOCKED AT C-SLIP	
2/24	14:20	INSPECTOR ARRIVED	
2/24	14:30	COMMENCED OBQ INSPECTION	
2/24	14:45	COMPLETED OBQ INSPECTION	
2/24	15:05	STK 182 GAUGED, SAMPLED, TEMPED OPEN	
2/24	17:20	HOSE CONNECTED	
2/24	18:55	COMMENCED LOADING FROM STK 182	
2/25	09:45	SHUTDOWN / AWAITING AVAILABLE PRODUCT	
2/25	10:40	STK 182 GAUGED AND TEMPED CLOSED	
2/25	17:45	STK 182 GAUGED, SAMPLED, TEMPED OPEN	
2/25	20:15	RESUMED LOADING FROM STK 182	
2/26	00:20	COMPLETED LOADING / TANKERMAN STOPPED LOAD	
2/26	00:25	COMMENCED CARGO INSPECTION	
2/26	00:40	HOSE DISCONNECTED	
2/26	00:50	COMPLETED CARGO INSPECTION	
2/26	01:30	CALCULATIONS COMPLETED	**************************************
2/26	02:00	INSPECTOR DEPARTED	
$\neg \uparrow$			
一十			
$\neg \uparrow$			
	······································		
-			
DE	LAYS AND	STOPPAGES:	
2/25	09:45	SHUTDOWN / AWAITING AVAILABLE PRODUCT	
2/25	17:45	STK 182 GAUGED, SAMPLED, TEMPED OPEN	
-			
_			
			- A
MESA	ABKED * 4	ARE SUBMITTED TO US.	TIME LOG PAGE * OF

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F-3A	
PORT / TERMINAL: LAKE CHARLE / CITGO	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 26 VOY #:	INSPECTOR(S): BELLON
DATE: 12/24/2008	SGS FILE: 126337
CARGO: SPENT CAUSTIC	CLIENT: CES Environmental REF: TBD

	<b>┌</b>	
	-	
U	u	

# **VOYAGE ANALYSIS REPORT**

000				On Gas	8 & Chemicals Ser	
✓ LOADING □ V-V	TRANSFER [	DISCHARGE	SUMMARY	- Company	Type of Voyage Simple	C/P DATE
Load Port/Terminal/Berth	ARRIVED	SAILED	Discharge Port/T	erminal/Berth	ARRIVED	SAILED
CITGO Lake Charles	12/28/2008	12/29/2008				
VOLUME UNITS	SUPPLIER	RECEIVER	VCF SHORE LOAD	VCF SHORE DISCH	VCF VESSEL LOAD	CF VESSEL DISC
BBLS GALS M3 L	CITGO	CES				
DESCRIPTION API	тсу	FW	GSV	S&W	NSV	Reference
I. COMPARISON OF SHORE QUA	NTITIES IN CUST	ODY TRANSFER		<u> </u>		-
Bill of Lading 1.	8183.25	0.00	8183.25			(1)
Dutturn 2.						(2)
Diff. 3.						(3)=(2) - (1)
Diff. % 4.						(4) = (3) / (1) x 100
Recalc. B/L 5. (a)		Recalculate if	B/L and O/T use d	lifferent tables.		(5) (a) Vol. Diff.
II. VESSEL/SHORE QUANTITIES	AT( 1 )LOAD	PORT(S)			1	_
essel Sailing A.	8340.66	0.00	8340.66	LIQUID	NON-LIQUID	(A)
OBQ (All) B.	0.00	0.00	0.00	0.00	0.00	(8)
Loaded C.	8340.66	0.00	8340.66			(C)=(A) - (B)
Difference D.	157.41	0.00				(D)=(C)-[(1) or (5)]
Difference % E.	1.92%					(E)=(D)/[(1)or(5)]x100
oad Vessel Ratio F.	1.0192					(F)≈(C)/[(1)or(5)]
oad VEF G.						(G)
heoretical Shore H.						(H)=(C) / (G)
heoretical Shore Diff. 1.	-8183.25					(I)=(H) - [(1) or (5)]
heoretical Shore Diff. % J.	-100.00%					(J)≈(f)/[(1) or (5)]x100
I. VESSEL/SHORE QUANTITIES	AT ( ) DISCH	IARGE PORT(S)	_			
essel Arrival K.				LIQUID	NON-LIQUID	(K)
ROB (AII) L.						(L)
Discharged M.				3.7		(M) = (K) - (L)
Difference N.						(N) = (2) - (M)
Difference % O.	<u></u>					(O) = (N) / (2) x 100
Discharge Vessel Ratio P.						(P) = (M) / (2)
lischarge VEF Q.						(Q)
heoretical Shore R.						(R) = (M) / (Q)
heoretical Shore Diff. S.						(S) = (2) · (R)
heoretical Shore Diff. % T.						(T) = (S) / (2) x 100
II, VESSEL'S COMPARISON OF L	OADING AND DIS	CHARGE PORT(S	) VCF TABLE MI	UST BE CONSIST	ENT	
ransit Difference U.						(U) = (K) - (A)
Difference % V.			f	LIQUID	NON-LIQUID	(V) = (U) / (A) x 100
BQ/ROB Difference W.		<del>-</del>				(W) = (L) - (B)
DJ TCV DIFF : (Quar	TCV Difference (3) -	OBQ (B) + ROB (L)	[S. S&W at Load Port	&W(1)/GSV(1)]X100	[5 S&W at Disch Po	&W(2)/GSV(2)]X100 rt :
omments :						$\triangle$
**************************************						- J
Prepared by: BELLON	Title: INS	SPECTOR	Company:	SGS	Date Completed :	12/25/2008 :
opyright SGS-OG&C June 1997 - Rev O		J. LUTUR			published General Te	

F-1					Page	
PORT / TERMINAL: LAKE CHARLE	E / CIT	GO	OFFICE LA	KE CHARLES, LA	TEL (337) 625-1455	
VESSEL CCL 26	VOY#		INSPECTOR(S	): BELLON		
DATE 12/24/2008			SGS FILE 1	26337		
CARGO SPENT CAUSTIC			CLIENT CE	S Environmental	REF TBD	
SGS		SHORE QUAN	NTITY SUMI		Gas & Chemicals Services Division	1.
✓ AT LOADING ☐ AT TRANS	SFER [	AT DISCHARGE	<b>✓</b> SHORE	TANK (STATIC)	METER (DYNAMIC)	
CUSTODY TRANSFER SAMPLE	************		***************************************			
☐ API@ 60°F:		R.D. 60°F/60°F		Densi	ty Lbs/Gal @	<del></del>
S&W % VOL:						
SOURCE OF ANALYTICAL DATA:			······································			************
	UNITS	TANK 182	TANK 182			
TOTAL CALCULATED VOLUME	BBLS	6436.44	1746.81			
FREE WATER	BBLS	0.00	0.00			
GROSS STANDARD VOLUME	BBLS	6436.44	1746.81			
S & W VOLUME	BBLS					
(NET) STANDARD VOLUME	BBLS					
WCF TABLE (t )						
GROSS STANDARD WEIGHT						
S & W WEIGHT						
(NET) STANDARD WEIGHT			······································			$\neg$
			·			$\neg$
	<u> </u>		,			$\neg$
	UNITS			SHORELINE	TOTAL DELIVERED	$\neg$
TOTAL CALCULATED VOLUME	BBLS				8183.25	ᅱ
FREE WATER	BBLS				0.00	$\dashv$
GROSS STANDARD VOLUME	BBLS				8183.25	ᅥ
S & W VOLUME	BBLS					$\dashv$
(NET) STANDARD VOLUME	BBLS					$\dashv$
					✓ GSV NSV SV @	ᅱ
GROSS STANDARD WEIGHT						$\dashv$
S & W WEIGHT						$\dashv$

STOWAGE C	STOWAGE O/B VESSEL: 1-3C									
			B/L DATE:							
REMARKS	QUANTITY CONFIRMED	QUANTITY CHANGES	YES	NO	IF YES STATE REASON					
with	of					/%				
with	of					W				
Date	Time					X				
	0.000 July 1007 Park 0-10000			1		Mary				

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(NET) STANDARD WEIGHT

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F-2			·		Pag	
PORT / TERMINAL: LAKE CHA			OFFICE: LAKE INSPECTOR(S):		TEL: (337)	325-1455
VESSEL: CCL 26 DATE: 12/24/2008					**************************************	yayay haya dahari Magaya ayana ayidan kala iyala da kara qaana ayayay dara saray
CARGO: SPENT CAUSTIC			SGS FILE: 1263	——————————————————————————————————————	REF: TBD	
CCC	1/1	ECCEL OIL	ANTITY SUMM	······································		
<u> </u>	V 1	ESSEL QUA	ANTITY SUMM	Oil O	as & Chemicals Se	rvices Division.
AT LOADING AT TE	RANSFER AT	DISCHARGE	CRUDE OII		<b>✓</b> PROD	ucts
✓ API @ 60°F:	F	.D. 60°F/60°F		Densit	ty Lbs/Gal @	
S&W % VOL:						
SOURCE OF ANALYTICAL DATA	A: SGS	·///··////////////////////////////////				·
	120	LUME			WEINT	
			(t WCF		WEIGHT	
	BBLS	U.S. GALS	· [` '	POUNDS	LONG TONS	METRIC TONS
ESSEL'S QUANTITIES	V.E.F. CO	RRECTED :	TYES Y	NO	VEF:	
OTAL CALCULATED VOL	8340.66	350307.72	2			
REE WATER	0.00	0.00				
GROSS STANDARD VOLUME	8340.66	350307.72	2			
& W VOLUME						
NET) STANDARD VOLUME	<u> </u>					
<b>☑</b> OBQ			ROB			
IQUID MATERIAL	0.00	0.00		·		
ION-LIQUID MATERIAL	0.00	0.00		······································		
REE WATER	0.00	0.00		· · · · · · · · · · · · · · · · · · ·		
OTAL	0.00	0.00				
		<u></u>		······································		<u> </u>
✓ LOADED QUANTIT	IES		DISCHARGED QUAI	NTITIES		
		·				
OTAL CALCULATED VOL	8340.66	350307.72				
REE WATER	0.00	0.00				
ROSS STANDARD VOLUME	8340.66	350307.72				
& W VOLUME				**************************************		
IET) STANDARD VOLUME						
RE SLOPS INCLUDED IN CALC	CULATIONS	YES	✓ NO	□ NO	SLOPS ON BOARD	
TOWAGE O/B VESSEL: 1-3C				***************************************		
REMARKS:						<b>b.</b> .

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1831

F-11								Page 1 of 1
PORT/TERMINA	L: LAKE CHARLE	S	/ CITGO		OFFICE LAKE	CHARLES, LA	TEL (337) 625-1455	
VESSEL CCL 26			VOY#		INSPECTOR(S):	BELLON	SGS FILE 126337	
CARGO SPENT	CAUSTIC	***************************************			CLIENT CESE	invironmental	REF TBD	
CCC			SHORE TAN	IK MEASUR	EMENTS (ST	ATIC) - CHEMICALS		
<b>202</b>			✓ AT LOAD		AT TRANSFER		GE Oil Gas & Chemica	ls Services Division.
SHORETANK #	182	REF HE	IGHT	G	AUGE UNITS	Y FT-IN 🗆 FT 🗇	MM OTHER:	
OPEN DAT	E: 12/24/2008 TI			E : 12/25/2008 TI	ME: 10:40		OPEN	CLOSE
OBS. REF. HEIGHT	§ INNAGE	= WATER INNAGE	OBS. REF. HEIGHT	§ INNAGE	=WATER INNAGE	INSPECTOR:	BELLON	BELLON
28-10	26-4-1/4	23-0-14	8-10-1/2	6-4-3/4	3-4-1/2	WITNESS:		
						☐ API @ 60°F		
						REL DENS 60°F/60°F		
						DENSIT Lb/Gal @		
						SOURCE:		
						☐ DENS CORR ºF/ºC		
§ MEASUREMENT	TS TAKEN IN ACC	PRDANCE WITH	:			✓ °VCF TABLE		
FREE WATER D	ETERMINED IN AC	CORDANCE WITH	:			AMBIENT AIR TEMP	72.0	69.0
# TEMPERATURE	S TAKEN IN ACCO	RDANCE WITH	:	API MPMS 7.6.4		TEMP OF TANK SHELL	66	65
^ VOLUME CALC	ULATED IN ACCOR	RDANCE WITH				SOURCE SGS	CLIENT TABLE:	
PROD TEMP	65.1 x 0.8	75 = 56.9625	PROD TEMP	64.8 x 0.8	<b>75 =</b> 56.7000	AVG TEMP (0.5°F)	65.0	65.0
(+) AIR TEMP $72.0 \times 0.125 = 9.0000$ (+) AIR TEMP		69.0 x 0.1	<b>25</b> = 8.6250	AVG INNAGE	26-4-1/4	6-4-3/4		
TANK SHELL TE	MPERATURE	₌ 66	TANK SHELL TE	MPERATURE	= 65	AVG WATER INNAGE	23-0-14	3-4-1/2
ROOF CORRECTI	ON INFO - STAND	ARD API:				VOLUME UNITS 🗹 BBI	S M3 OTHER	*
CRITICAL ZONE	RANGE FROM	то	ROOF	EG 🔲 HIGH	l 🔀 LOW	TABLE VOLUME **	8457.28	2020.84
		OI	PEN	CL	OSE	FREE WATER	0.00	0.00
AVG INN/ULL IN	CRITICAL ZON	[ YES	□ NO	☐ YES	□ NO	OBSERVED VOLUME	8457.28	2020.84
SIDEGAUGE		26-	5-1/8	6-7	7-3/8	TANK SHELL CORR.	1.00000	1.00000
TEMPERATURE	S ºF	# PROBE	MERCURY	# Y PROBE	MERCURY	OBSERVED VOLUME	8457.28	2020.84
* ACTION TAKEN	l:	□U □M		□u □ M	. □ <b>L</b>	ROOF CORRECTION	0.00	0.00
		▼ M 65.1		✓ M 64.8		PRODUCT VOLUME	8457.28	2020.84
		OTHER*		OTHER*		V.C.F.	1.00000	1.00000
SIDETEMP/REMOTE					VOLUME @ 60	8457.28	2020.84	
PROBE WAS CH	ECKED PRIOR TO	USE 🗹 YES	NO [	NOT USED		DIFFERENCE	643	6.44
SAMPLING		Ou Or	A OL	Du Di	A 🗆 L	DENSITY Lb/Gal @ 60	0.00000	0.00000
* ACTION TAKEN	V :	DT DI	3 <b>Y</b> R	Г т □ в	3 🗀 R	WEIGHT ( LBS )	0.000	0.000
		OTHER*		OTHER*		DIFFERENCE	0.0	000
AT ULLAGES :						** IS TABLE VOLUME IN	BBLS M3	OTHER:
CALIDATEKED	)	Ref TSh Temp :	60	OP TEMP:				
Capyright-SGS-OG&	C 2001 - Rev April 20	05				Services render	ed according to published G	eneral Terms and Conditions

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		1242418702		11000001010

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F-11					rage at ot		
PORT / TERMINAL: LAKE CH	ARLES / CITGO	OFF	OFFICE LAKE CHARLES, LA TEL (337) 625-1455				
VESSEL CCL 26	VOY#	INSI	INSPECTOR(S): BELLON SGS FILE 126337				
CARGO SPENT CAUSTIC		CLII	ENT CES Environmenta	REF TBD			
CCC	SHORE T	ANK MEASUREME	NTS (STATIC) - CI	HEMICALS			
<b>3U3</b>	✓ AT LO			AT DISCHARGE Oil Gas & Chem	nicals Services Division.		
SHORETANK # 182	REF HEIGHT	GAUGE	UNITS FT-IN	FT MM OTHER:			
OPEN DATE: 12/25/200		ATE: 12/26/2008 TIME:	1:35	OPEN	CLOSE		
OBS. REF. HEIGHT § INNAGE	WATER INNAGE OBS. REF. HEIG	IT § INNAGE ¤WA	TER INNAGE INSPECTOR	BELLON	BELLON		
17-7-3/4 15-2	12-0-7/8 12-3	9-9	6-6-1/2 WITNESS:				
			☐ API @ 60	F			
			REL DEN	S 60°F/60°F			
			DENSIT	Lb/Gal @			
			SOURCE:				
			DENS COF	IRºF/ºC			
§ MEASUREMENTS TAKEN IN	ACCORDANCE WITH :		□^ VCF TAB	LE			
FREE WATER DETERMINED	IN ACCORDANCE WITH :		AMBIENT AI	R TEMP 70.3	68.1		
# TEMPERATURES TAKEN IN	ACCORDANCE WITH :	API MPMS 7.6.4	TEMP OF TA	NK SHELL 70	68		
^ VOLUME CALCULATED IN A	CCORDANCE WITH :		SOURCE	SGS CLIENT TABL	E:		
PROD TEMP 70.3 x 0.875 = 61.5125 PROD TEMP		68.1 x 0.875 =	59.5875 AVG TEMP (		68.0		
(+) AIR TEMP 70.3 x 0.125 = 8.7875 (+) AIR TEMP		68.1 x 0.125 =	8.5125 AVG INNAGE	15-2	9-9		
TANK SHELL TEMPERATURE	= 70 TANK SHELL	TEMPERATURE =	68 AVG WATER	INNAGE 12-0-7/8	6-6-1/2		
ROOF CORRECTION INFO - ST	ANDARD API:		VOLUME U	NITS MBLS MB COTH	IER:		
CRITICAL ZONE RANGE FROM	TO ROC	FLEG HIGH	LOW TABLE VOL	JME ** 4848.85	3102.04		
	OPEN	CLOSE	FREE WATE	R 0.00	0.00		
AVG INN/ULL IN CRITICAL 2	ON SES NO	YES	NO OBSERVED	VOLUME 4848.85	3102.04		
SIDEGAUGE			TANK SHEL	L CORR. 1.00000	1.00000		
TEMPERATURES °F	# PROBE MERCUF	Y # PROBE	MERCURY OBSERVED	VOLUME 4848.85	3102.04		
* ACTION TAKEN :			L ROOF COR	RECTION 0.00	0.00		
	☐ M 70.3	M 68.1	PRODUCT V	OLUME 4848.85	3102.04		
	OTHER*	OTHER*	V.C.F.	1.00000	1.00000		
SIDETEMP/REMOTE			VOLUME @	60 4848.85	3102.04		
PROBE WAS CHECKED PRIOR	R TO USE YES NO	NOT USED		DIFFERENCE	1746.81		
SAMPLING			L DENSITY Lb	'Gal @ 60 0.00000	0.00000		
* ACTION TAKEN :	□ T □ B ☑ R	Пт Пв	R WEIGHT (	LBS ) 0.000	0.000		
	OTHER*	OTHER*		DIFFERENCE	0.000		
AT ULLAGES :			** IS TABLE	VOLUMEIN BBLS M3	OTHER:		
CAT BATE (ED)	Ref TSh Temp: 60	OP TEMP:					

Consequit SGS-OG&C 2001 - Rev April 2005

EPAHO081001832

PORT / TERMINAL: LAKE CHARLES	/ CITGO	OFFICE: LAKE CHARLES, LA	TEL: (337) 625-1455
VESSEL: CCL 26	VOY #:	INSPECTOR(S): BELLON	SGS FILE: 126337
DATE: 12/24/2008 CARGO: SPENT CAUSTIC		CLIENT: CES Environmental	REF: TBD

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SGS		
<b>363</b>		
UUU		
	,	<del></del>

# OBQ ROB MEASUREMENT

NOTE: DO NOT USE V.C.F. IF TEMPERATURE IS NOT TAKEN

Oil Gas & Chemicals Services Division.

UNITS :	Y F	T-IN		FT	MM		THER:		UNITS: 🗹 BE	3LS	U.S. GALS	M³ 🗓 o	THER:
TANK #	REFERENCE HEIGHT	OBSERVED REFERENC E HEIGHT	*	OBSERVED INNAGE	FREE WATER INNAGE	NON-LIQUID INNAGE	AVG. TEMP	CORRECTED MEASURE	TOTAL OBSERVED VOLUME	^ V.C.F.	FREE WATER VOLUME	NON-LIQUID VOLUME	LIQUID VOLUME
1	16-2-1/2	16-2-1/2	С	0-0	0-0	0-0		0-0	0.00	1.00000	0.00	0.00	0.00
2	16-2-1/2	16-2-1/2	С	0-0	0-0	0-0		0-0	0.00	1.00000	0.00	0.00	0.00
3	16-2-3/4	16-2-3/4	С	0-0	0-0	0-0		0-0	0.00	1.00000	0.00	0.00	0.00
			1										
^ VC	LUME CALCUL	ATED IN ACCO	RDAI	NCE WITH		<u> </u>		TOTALS	0.00		0.00	0.00	0.00
On t	ehalf of our clie	Bbls of L	IQL	D Bring to your a SID MATERI S-LIQUID MA	AL	our opinion :		GAUGE LOC	CATION: STA	ANDPIPE	☐ <b>G</b> .H	orrected, t = Trim o	nk
rem	ains on board v			tent we are awa		ŧ		* GAUGE PO	OSITION: C = Cen	ter of tank	F = Forward c	of Center A = Aft of	Center
relat	tionships, this n	naterial belongs	to ou	ır client(s) and s dicate your reas	hould be pumpe			OBQ SAM	PLED	YES 🗹	NO IF NO	REASON	
In a	ny event, we have pensation for the	e to advise our e	clien mout	t(s) of the above	and reserve his	•		OBQ TES	TED []	YES [	NO IF NO	REASON	
		sponsibility for S		iu similiar agvisi	ory services exp	oress personal							
								ROB SAM	PLED	YES 📋	NO IFNO	REASON	
					- The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second sec		·			Philippe			
								DRAFT:	FWD (P) 2-0		AFT (P) 1-6	LIST	: [♀] (P) / (S)
		***************************************				/E BELLON			(S) 2-0		(S) 1-6		
7.41	COKYESSI	L'S STAFF			· · · · · · · · · · · · · · · · · · ·	NSPECTOR	····	SEA CO	NOITION: CALM I	N PORT			****

DATE

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F-20

PORT / TERMINAL: LAKE CHARLES

ight 608-004C 2001...Rev April 2005

/ CITGO

VESSEL	SSEL: CCL 26 VOY#:						INSPECTOR(S):	BELLON		SGS FILE: 12	26337		
DATE:						CLIENT: CES	Environment	lal	REF: TBD				
CL	<b>2</b> C			VESS			SYSTEM(CH	IEMICALS	S) 🗌 OPEN	CLOSE/RES	STRICTED		
<u>Ol</u>	19					ARRIVAL		EPARTURE		Oil Gas & Ch	emicals Serv	ices Division.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
AT LOADING AT TRANSHIPMENT AT DISCHARGE					✓ CARGO			ST TANKS	NOI	VOTHER CARG	iO		
UNITS:		FT-IN	FT		MM	OTHER:		JNITS : 🗹	BBLS	U.S. GALS		OTHER:	
TANK #	REFERENC E HEIGHT	OBSERVED REFERENCE HEIGHT	¤ ULLAGE	WATER INNAGE	TEMPERATUR § PROBE	RE ºF AVG. TEMP	CORRECTED MEASURE	VOLUME	FREE WATER	PRODUCT VOLUME	^ V.C.F.	VOLUME @ 60°F	*
1	16-2-1/2		4-0	0-0	66.2	66.0	12-2-1/2	2923.02	0.00	2923.02	1.00000	2923.02	C
2	16-2-1/2		5-11-1/8	0-0	65.9	66.0	10-5-3/8	2876.82	0.00	2876.82	1.00000	2876.82	С
3	16-2-3/4		5-11-1/8	0-0	66.0	66.0	10-3-5/8	2540.82	0.00	2540.82	1.00000	2540.82	С
												MINION	+
		`											+
													1
													+
													1
PROBE	WAS CHEC	KED PRIOR TO	OUS V Y	ES II I	NO NO	T USED	TOTALS	8340.66	0.00	8340.66		8340.66	+
GAUGE	LOCATION	STAND	PIPE	G.H. on	Expansion trur	1	1	J	VE	SSEL QUANTITIE	S	······································	
		OTHER:					BARRELS	8340.66	at ºF/º	POUNDS		<del></del>	
* GAU	E POSITIO	N: C = Center	of tank F = F	orward of Co	enter A = Aft of	Center	U.S. GAL.	350307.72	at ºF/º	LONG TONS	····	······································	**************************************
^ VOLUM	E CALCULAT	ED IN ACCORDA	ANCE WITH				M³		at ºF/º	KILOGRAMS			
# LIQUID	LEYEL GAUG	ES IN ACCORDA	NCE WITH	1	API MPMS 17.2	2,6.1.2		***************************************	***************************************	METRIC TON		,	
§ TEMPE	RATURE DETI	ERMINATION IN	ACCORDANCE	WITH /	API MPMS 17.2	2.6.1.2	API @ 60	F L	COTE * 1000	0000			
UPON	COMPLETIC	N OF DISCHA	RGE ALL CAF	RGO TANKS	WERE FOUND	TO BE	STANDAR	D RELATIVE	DENSITY			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***************************************
WELL	DRAINED	YES	NO (SI	E F-20 DEP	ARTURE)		sour	RCE: 🗆 S	sgs 🗌 cl	IENT 🗌 OTHE	R (SPECIFY)		,
SAMPL	ES DRAWN	: 3X1 QT RI	JNNING				STANDAR	D DENSITY	Lbs/0	Galat ºF/º	c T		
DRAFT	: FWD (	P) 9-0	AFT (F	P) 9-0	LIST :	:	DENSITY	WATER	Lbs/0	Salat ºF/º	c		***************************************
	(	S) 9-0	(\$	3) 9-0	· · · · · · · · · · · · · · · · · · ·				·		<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	*****	***************************************
SE/	CONDITIO	N: CALMINI	PORT				DENSITY	CORRECTION	PER ºF/ºC	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			***************************************
HEC	CKED						✓^V.C.F. TAE	3LE	· · · · · · · · · · · · · · · · · · ·	***************************************			
TATE	Ministra Bullion	SEL'S STAFF		***************************************	INSPECT	OR	SOUR	CE: S	GS 🗸 CLII	NT OTHER	(SPECIFY)		

OFFICE: LAKE CHARLES, LA

at the

TEL: (337) 625-1455

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F-7															
PORT / TERMIN	RT / TERMINAL: LAKE CHARLE / CITGO				OFF	CE: L	AKE CH	HARLES, I	LA	TE	L: (	337) 625-	145	5	
VESSEL: CCL 26 VOY #:				INSP	ECTOR	(S): B	ELLON								
DATE: 12/24/2008					SGS	FILE:	126337	7							
ARGO: SPE	NT CAUSTIC				CLIE	NT: C	ES Env	ironmenta	ıl	RE	<b>F</b> : T	BD			
CCC		INFO	ORMA	TION F	OR CLE	ANLIN	IESS II	NSPECT	ION						
SGS								Oi	il Gas	& Ch	emica	als Servic	es D	ivisio	1.
AT LOADING	G ATTR	ANSFER	ATD	ISCHARG	3E			HORE		í	<i>7</i>	/ESSEL			
									······································				<del>7                                      </del>	·	
***************************************	THE INFORMATION ON	THIS LIRIS F-7 WILL	BE USED	TO COMPL	ETE LIRIS F	9 WAS SL	BMITTED	TO US BY THE	E PERS	ON(S) II	VDICAT	ED BELOW			
WE CONSULT	ED FOR TANK INS	PECTION ON (	DATE)	12/24/2	T) 800	ME)		14:30 W	/ITH:						
	VESSEL'S STAFF	BAF	RGE OP	ERATOR		TERN	IINAL R	EPRESENT	TATIV	E		CHART	ERE	7	
OTHER (S				**********				·							
PLEASE PRIN	IT NAME(S)											·			
											<del></del>		14/44-A-		
TANK MATERIA	Ai -		~				<del></del>								
TANK #:		1-3C				7									=
MATERIAL	.,,	MILD STEEL									,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1			
COATING NAM	E	N/A											<del>(************************************</del>		-
APPARENT CO	NDITION *	ACCEPTABL	E										·		_
TANK #:								<u>-</u>							
MATERIAL										77.1	*******				
	7	Minkelson													
COATING NAM	E-	1													
					<del> </del>										-
APPARENT CO		ST MANU	JFACTU	JRERS		THER (S	PECIFY	) )		(	HEC	KLIST		#7272-14#	
COATING NAM APPARENT CO COATING WAS F NOT CHECK	NDITION * CHECKED AGAIN	ST MANU	JFACTU	JRERS	0	HER (S	PECIFY	) )		(	HEC	KLIST			
APPARENT CO COATING WAS F NOT CHECK	NDITION * CHECKED AGAIN								NTAC				ATIC	NS)	
APPARENT CO COATING WAS F NOT CHECK SELECT:	NDITION * CHECKED AGAIN ED, REASO	% DISCOLOR	RED %	PEELING	ACCEP	TABLE	etc. (A	LL PERCE		SES A			ATIC	NS)	
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PPARENT CO COATING WAS F NOT CHECK SELECT: JR INSPECTION FO PREVIOUS CAI TANK# SC  INES - PUMPS NAME  THE C "LINE" SAI	CHECKED AGAIN ED, REASO e.g. % MISSING OR F-9 COVERS THE CL  THIRD UNKNOWN  SS: MATE	% DISCOLOR EANLINESS OF THE D LAST  ERIAL  N OF THE CARGO P MENCING THE TRAN	UNK UNK	PEELING GS, NOT ITS  SECCINOWN  LA	ACCEP SUITABILIT  DND LAST  AST USE	TABLE YIN REGA	SPEN	LA NT CAUST	PRES YES YES YES YES YES YES	SSED TIS RE	WITH NO NO NO COMMI	PPROXIM  COF  YES  YES  YES  YES  PRESSU   MPATE SE	IBLE NO NO NO NO NO NO NO NO NO NO NO NO NO		

F-9	Page (1989) of (1989)
PORT / TERMINAL: LAKE CHARLE / CITGO	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 26 VOY #:	INSPECTOR(S): BELLON
DATE: 12/24/2008	SGS FILE: 126337
CARGO: SPENT CAUSTIC	CLIENT: CES Environmental REF: TBD
	NLINESS INSPECTION
<b>565</b>	Oil Gas & Chemicals Services Division.
☑ AT LOADING ☐ AT TRANSFER ☐ AT DISCHARGE	
	WITH CUSTODY TRANSFER
USE A SEPARA	TE FORM F-9 PER INSPECTION
THIS IS THE FIRST SECOND	THIRD TH INSPECTION
TANK(S): 1-3C	
BASED ON SUBMITTED INFORMATION (SEE LII	RIS F-7) AND :
Comment of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the s	
☐ VISUAL CHECK FOR RESIDUES FROM	DECKLEVEL (SEE LIRIS F-15 OR F-20)
✓ MEASURING OF RESIDUES FROM DEC	· · · · · · · · · · · · · · · · · · ·
produced	SPHERE STATEMENT BELOW MUST BE COMPLETED PRIOR TO ENTRY)
,	
AND USUAL INSPECTION	
AND 🗆 WALLWASHING (AN	ALYTICAL REPORT ON FILE)
AND TESTING OF HEATING	G COILS
	İ
<b>☑</b> WERE ACCEPTED FOR CLEANLINESS TO CARRY	A CARGO OF SPENT CAUSTIC
WERE REJECTED FOR CLEANLINESS TO CARRY	A CARGO OF
REASON :	
SHIP'S STAFF AND/OR SGS SUPERVISOR AND	OR CLIENT NOTIFIED ON BY
☑ INSPECTION COMPLETED AT 14:45 HRS ON	THE 12/24/2008
TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING	BERTH IN CASE OF PRE-INSPECTION
SIGNATURES:	STEVE BELLON
FOR VESSEL	FOR TERMINAL INSPECTOR
* IS THIS TANK ACCEPTANCE BASED SOLELY ON SUBMIT	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
IF YES; ISSUE N.O.A.D. AND INFORM YOUR SGS SU	PERVISOR AND/OR CLIENT(S) IMMEDIATELY.
	ATMOSPHERE STATEMENT
-	n line 13 of this page have been cleaned and gas freed as
reported on the reverse side of the SGS F-7 and that the	
The undersigned hereby grants permission for SGS pers	sonnel to enter said tanks.
Tank Safe Atmosphere Statement signed	hours on
SIGNATURES :	
FOR VESSEL	FOR TERMINAL
	1 On TERMINAL
PRINT NAME (S) :	
NOTE: DO NOT ENTER THE TANK(S) if this	S TANK SAFE ATMOSPHERE STATEMENT is not signed
	pervisor for further instructions.
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To: JENNY RUST SGS REF NO: 112916 **CES** Environmental

### **SUMMARY OF FINDINGS**

#### **OPERATION**

DISCHARGE FROM THE "CCL 26" TO SHORE TANK(S) 607 AT KMTEX, PORT ARTHUR, TX ON 9/9/2008, OF A CARGO DESCRIBED AS SULFIDIC CAUSTIC

### **QUANTITY Discharged on 9/9/08**

	ŭ	DELIVERED (1)	RECEIVED (2)	DIFFERENCE	PERCENT
GSV	BARRELS	8,758.68	8,847.70	-89.02	1.01
	U.S. GALLONS	367,864,56	371,603,40	-3,738,84	1.01

- 1. Delivered quantity based on barge figures
- 2. Received quantity based on shore tank 607
  3. Arrival: 9,107.60 GSV BBLS
- 4. ROB: 348.92 GSV BBLS

### TIME LOG

HIMIE FOR	<b>.</b>	
9/8/2008	16:00	BARGE ON SITE
	18:45	INSPECTOR NOTIFIED
	19:40	INSPECTOR ARRIVED
	20:00	INSPECTOR ON BOARD
	20:05	COMMENCE BARGE PRE-INSPECTION
	20:20	COMPLETE BARGE PRE-INSPECTION
	20:40	CARGO HOSE CONNECTED
	20:55	SHORETANK # 607 GAUGED OPEN
	21:20	COMMENCE DISCHARGE
9/9/2008	01:30	COMPLETE DISCHARGE
	02:35	INSPECTOR NOTIFIED
	03:00	INSPECTOR ARRIVED
	03:10	COMMENCE BARGE FINAL INSPECTION
	03:20	COMPLETE BARGE FINAL INSPECTION
	03:50	SHORETANK # 607 GAUGED CLOSED
	04:30	INSPECTOR DEPARTED

Darren W. Le Blanc Date: 9/10/2008

Shore volume calculated in accordance with: Vessel volume calculated in accordance with: TOV TOV

SGS North America Inc.

Oil, Gas & Chemicals Services

t(409-727-1035) www.sgs.com

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Definition of Terms as per MPMS Chapter 1.
Procedures as per applicable MPMS Chapter 3.1a, 7, 8.1 or 8.2, 12.1 or 12.2, 17.1, 17.2, 17.4.

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# Inspection Report (LOADING)

Date: 7/22/2008

Our ref.: 107438

Subject: CCL 26
Product: SULFIDIC CAUSTIC

Location: Lake Charles, La / Citgo

Client ref.: TBD

Client: CES ENVIRONMENTAL SERVICES

Summary of Figures	Bbls @ 60°F	Gallons @ 60°F	Long Tons	Metric Tonnes	Pounds
Shore Measurements Total Shore figures delivered GSV	8,296.52	348,453.84			
Average API Gravity @ 60°F Shoretanks no(s): ST 182, S/T 182					
Vessel's Measurements					
Vessel's figures before loading (OBQ) Free Water	0.00				
Vessel's figures before loading (OBQ) Liquid	18.02				
Vessel's figures before loading (OBQ) Non Liquid	0.00				
Vessel's figures before loading (OBQ) Total	18.02	756.84			
Vessel's figures TCV on board after loading	8,338.95	350,235.90			
Vessel's figures TCV loaded	8,320.93	349,479.06			
Vessel's figures Free Water loaded	0.00	0.00			
Vessel's figures GSV loaded	8,320.93	349,479.06			

Cargo stowage Cargo tanks no(s):

CCL 26[1C, 2C, 3C]

## Samples

SHORE TANK- 2X1 QUARTS RUNNING

BARGE - 2X1 QUART RUNNING EACH CARGO TANK AFTER LOAD.

# Time Log

7/21/2008	0820	VESSEL ARRIVED
	0825	VESSEL ALL FAST
	0830	INSPECTOR NOTIFIED
	0910	INSPECTOR ARRIVED
	0915	COMMENCED PRE LOADING DECK INSPECTION
	0925	COMPLETED PRE LOADING DECK INSPECTION
	1030	ST 182 GUAGED SAMPLED AND TEMPERATURED / OPEN
	1045	CARGO HOSE CONNECTED
	1100	COMMENCED LOADING
7/22/2008	0120	INSPECTOR NOTIFIED
	0200	INSPECTOR ARRIVED
	0210	LOADING SHUT DOWN FOR REFILLING OF ST 182
	0230	ST 182 GUAGED SAMPLED AND TEMPERATURED / CLOSED
	0240	COMMENCED REFILLING OF ST 182
	0300	INSPECTOR DEPARTED
	1145	INSPECTOR NOTIFIED
	1230	INSPECTOR ARRIVED TO GUAGE 182 OPEN

SGS North America Inc.

Oil, Gas & Chemicals Services 4701 E. NAPOLEON SULPHUR, LA 70663 t((337) 625-1455) f((337) 625-1721) www.sgs.com

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1305	INSPECTOR DEPARTED COULD NOT GUAGE TANK DUE TO LIGHTNING
1350	INSPECTOR NOTIFIED
1400	INSPECTOR ARRIVED
1430	ST 182 GUAGED TEMPERATURED AND REOPENED
1435	RESUMED LOADING
1500	INSPECTOR DEPARTED
1840	INSPECTOR NOTIFIED
1920	INSPECTOR ARRIVED
1925	COMMENCED POST LOAD DECK INSPECTION
1930	COMPLETED LOADING
2010	COMPLETED POST LOAD DECK INSPECTION
2045	ST 182 GUAGED TEMPERATURED AND CLOSED
2050	COMMENCED CALCULATIONS
2120	COMPLETED CALCULATIONS
2130	PAPERWORK PLACED ON VESSEL AND VESSEL RELEASED
2145	INSPECTOR DEPARTED

Brett Daigle for SGS Oil, Gas & Chemicals Services 7/24/2008

Shore volume calculated in accordance with:

ASTM D 1250-04

Vessel volume calculated in accordance with:

ASTM D 1250-04

Procedures as per applicable MPMS Chapter 3.1a, 7, 8.1 or 8.2, 12.1 or 12.2, 17.1, 17.2, 17.4.

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FIRCO REV. January 2007

Page 1 of 3

PORT / TERMINAL: Lake Charles, La / Citgo	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 26 VOY #:	INSPECTOR(S): C. BUSBY
DATE: 7/21/2008	SGS FILE: 107438
CARGO: SULFIDIC CAUSTIC	CLIENT: CES Environmental REF: TBN

SGS

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# TIME LOG

✓ AT		·····				***************************************					Oil	Gas &	Chemica	ils Servi	ces Divi	sion.
	LOADING						AT TRA	NSFER					TA	DISCHA	ARGE	
		2008	/ MON	TH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DE
Date Hou		COOL	ARRIVE	<u> </u>						······································					·	
7/21 08:2			ALL FAS				······································	······································			······································	W				
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7/21 08:3 7/21 09:1			TOR ARE										***************************************			
			NCED PE			חברו	/ INICIDE	CTION		<del></del>	·····		·	***************************************		<del>,</del>
7/21 09:1 7/21 09:2			TED PR									·····	************			
7/21 09:2 7/21 10:3			GUAGED						n / OPE	:Ní		***************************************			**************************************	
7/21 10:3 7/21 10:4			HOSE CO				INITER	ATORE	D / OF L	.IV	A-4		·		·	<del></del>
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7/21 11:0			TOR NOT	*******				<del></del>		······································			~,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		·····	
7/22 01:2			TOR ARR	-			······································									
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7/22 02:4			NCED RE					TIUNE	J / CEO	250					<del>"</del>	
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7/22 03.0			OR NOT							••••		······································			·	
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7/22 14:0			OR NOT													
7/22 14:3			BUAGED			HOEN	AND D	CODEN	<u> </u>				······································		<del>"</del>	
7/22 14:3			D LOAD!		ERAI	ONED	אויט חוי	COFFIA					· · · · · · · · · · · · · · · · · · ·		<del></del>	
7/22 15:0			OR DEP		<u> </u>	······								····	······································	
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			OR DEP			ESSEL	AND V	ESSEL	HELEA	2FD	<del></del>					

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PORT / TERMINAL: Lake Ch	arles, La / Citgo	OFFICE: LAKE CHARLES, LA	TEL: (337) 625-1455
VESSEL: CCL 26	VOY#:	INSPECTOR(S): C. BUSBY	
DATE: 7/21/2008		SGS FILE: 107438	
CARGO: SULFIDIC CAUST	IC	CLIENT: CES Environmental	REF: TBD

# VOYAGE ANALYSIS REPORT

✓ LOADING	1/1/1	TRANSFER	DISCHARGE	SUMMARY		Type of Voyage	C/P DATE
EJ LOADING LJ	V-V 1	INANOPEN	DISCHARGE	50MMAN1		Simple	
Load Port/Terminal/Berth		ARRIVED	SAILED	Discharge Port/T	erminal/Berth	ARRIVED	SAILED
LAKE CHARLES / CITGO		7/21/2008	7/22/2008				
VOLUME UNITS		SUPPLIER	RECEIVER	VCF SHORE LOAD	VCF SHORE DISCH	VCF VESSEL LOAD	/CF VESSEL DIS
BBLS GALS M3		CITGO	CES ENV.	6B		6B	
DESCRIPTION API	***************************************	TCV	FW	GSV	S&W	NSV	Reference
I. COMPARISON OF SHORE	E QUA	NTITIES IN CUST	ODY TRANSFER				<u> </u>
ill of Lading 1.		8296.52	0.00	8296.52			(1)
Dutturn 2.				·			(2)
oiff, 3.							(3)=(2) - (1)
)iff, % 4.							(4) = (3) / (1) x 100
lecalc. B/L 5.	(a)		Recalculate if	B/L and O/T use d	ifferent tables.		(5) (a) Vol. Diff.
I. VESSEL/SHORE QUANT	ITIES /	AT( 1 )LOAD	PORT(S)				
essel Sailing	A.	8338.95	0.00	8338.95	LIQUID	NON-LIQUID	(A)
OBQ (Ali)	В.	18.02	0.00	18.02	18.02	0.00	(B)
Loaded	C.	8320.93	0.00	8320.93			(C)=(A) - (B)
Difference	D.	24.41	0.00	24.41			(D)=(C)-[(1) or (5)]
Difference %	E.	0.29%		0.29%			(E)=(D)[(1)or(5)]x10
oad Vessel Ratio	F.	1.0029					(F)=(C)/[(1)or(5)]
oad VEF	G.						(G)
heoretical Shore	H.						(H)≃(C) / (G)
heoretical Shore Diff.	I.	-8296.52					(l)=(H) - [(1) or (5)]
heoretical Shore Diff. %	J.	-100.00%					(J)=(I)/[(1) or (5)]x100
I. VESSEL/SHORE QUANTI	TIES A	T ( ) DISCH	ARGE PORT(S)				
essel Arrival	K.				LIQUID	NON-LIQUID	(K)
ROB (AII)	L.						(L)
Discharged	M.						(M) = (K) - (L)
Difference	N.						$(N) = (2) \cdot (M)$
Difference %	0.						(O) = (N) / (2) x 100
ischarge Vessel Ratio	P.						(P) = (M) / (2)
ischarge VEF	Q.						(Q)
heoretical Shore	R.						(A) = (M) / (Q)
heoretical Shore Diff.	S.						(S) = (2) - (A)
heoretical Shore Diff. %	T.						$(T) = (S)/(2) \times 100$
II. VESSEL/'S COMPARISON	VOF L	OADING AND DIS	CHARGE PORT(S	) VCF TABLE MI	UST BE CONSIST	ENT	
ransit Difference	U.					(	(U) = (K) - (A)
Difference %	V.				LIQUID	NON-LIQUID	(V) = (U) / (A) x 100
BQ/ROB Difference	W.						W) = (L) - (B)
DJ TCV DIFF :	(Quan	TCV Difference (3) - tity) / 0.00	08Q (B) + ROB (L)	(S S&W at Load Port	&W(1)/GSV(1)]X100	[S. S&W at Disch Por	&W(2)/GSV(2)]X10 t:
omments :							
							- Source
enneed by C DISCOS	<del>,                                    </del>	Title: INS	PECTOP	Company :	SGS	Date Completed :	7/22/200
repared by: C. BUSBY			PECTOR			ublished Coners) Tax	

F-1					Ø:	ige 'f of '
PORT / TERMINAL: Lake Charles, L	a / Citao		OFFICE IA	KE CHARLES, LA		
VESSEL CCL 26	VOY#			S): C. BUSBY	1 1 (007)	1020-1400
DATE 7/21/2008			SGS FILE 1			
CARGO SULFIDIC CAUSTIC	·····		CLIENT CE	S Environmental	REF TBD	
SGS	(	SHORE QUAI	NTITY SUMI	MARY OII	Gas & Chemicals S	Services Division.
AT LOADING AT TRANS	FER [	AT DISCHARGE	<b>☑</b> SHORE	TANK (STATIC)	□ MET	ER (DYNAMIC)
CUSTODY TRANSFER SAMPLE					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
API @ 60°F:		R.D. 60°F/60°F		Dens	ity Lbs/Gal @	
8&W % VOL:						
SOURCE OF ANALYTICAL DATA:						
	······································	***************************************				
	UNITS	ST 182	S/T 182		T	
OTAL CALCULATED VOLUME	BBLS	6010.42	2286.10	1		1
REE WATER	BBLS	0.00	0.00			
ROSS STANDARD VOLUME	BBLS	6010.42	2286.10			
& W VOLUME	BBLS		······································			
NET) STANDARD VOLUME	BBLS					
VCF TABLE (1 8 )						
ROSS STANDARD WEIGHT						
& W WEIGHT			· · · · · · · · · · · · · · · · · · ·			
NET) STANDARD WEIGHT			***************************************			
	\L	*		I		<u></u>
	UNITS			SHORELINE	TOTAL D	ELIVERED
OTAL CALCULATED VOLUME	BBLS				829	96.52
REE WATER	BBLS		· <u>·············</u>		0	.00
ROSS STANDARD VOLUME	BBLS				829	96.52
& W VOLUME	BBLS					
IET) STANDARD VOLUME	BBLS					
					GSV NSV	SV @
ROSS STANDARD WEIGHT					N	
& W WEIGHT						- <del> </del>
IET) STANDARD WEIGHT						
			· · · · · · · · · · · · · · · · · · ·		<u> </u>	
TOWAGE O/B VESSEL: 1-3 CENT	ER CARG	O TANKS				
<del>a, a halama, a makida ka da da ka makida ma a da sa sa sa sa sa sa sa sa sa sa sa sa sa</del>		<u> </u>		B/L DATE:		
EMARKS QUANTITY CONFIRM	ED	QUANTITY CH	ANGES	YES NO	IF YES STATE	REASON
with of		Ì				

Time

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F-2			<del></del>		······································			
PORT / TERMINAL: Lake Charl			<del> </del>		CHARLES, LA	TEL: (337) 6	25-1455	
VESSEL: CCL 26  DATE: 7/21/2008	VOY #:	·····		LE: 107	C. BUSBY			
CARGO: SULFIDIC CAUSTIC		······	<del></del>		Environmental	REF: TBD		
666	VF	SSEL QUA	<u> </u>		MARY		**************************************	
	<b>V</b>				Oil G	as & Chemicals Se	rvices Division.	
AT LOADING AT TH	RANSFER AT	DISCHARGE		CRUDE OI	L	✓ PROD	UCTS	
			<del></del>					
✓ API @ 60°F:	A.	D. 60ºF/60ºF	***************************************		Density	Lbs/Gal @		
S&W % VOL:		-		······································	**************************************			
SOURCE OF ANALYTICAL DAT	A:						M	
						b 2 5 m + 24 2 2 4 4 4		
		LUME	(t	WCF 8 )		WEIGHT		
	BBLS	U.S. GALS	L		POUNDS	LONG TONS	METRIC TONS (AIR)	
VESSEL'S QUANTITIES	V.E.F. COF			ES Y	NO	VEF:	-	
TOTAL CALCULATED VOL	8338.95	350235.90						
FREE WATER	0.00	0.00						
GROSS STANDARD VOLUME	333333							
S & W VOLUME								
(NET) STANDARD VOLUME								
	<u></u>		***************************************				*	
					·		·	
✓ OBQ		□ R	ROB				······································	
				<del></del>	·		<del></del>	
LIQUID MATERIAL	18.02	756.84						
NON-LIQUID MATERIAL	0.00	0.00						
	0.00	0.00	1					
						1		
	18.02	756.84			·			
FREE WATER TOTAL								
TOTAL	18.02	756.84						
	18.02	756.84	DISCHAF	RGED QUA	NTITIES			
TOTAL  LOADED QUANTIT	18.02	756.84	DISCHAF	RGED QUA	NTITIES			
LOADED QUANTIT	18.02 TIES 8320.93	756.84	DISCHAF	RGED QUA	NTITIES			
LOADED QUANTIT  TOTAL CALCULATED VOL  FREE WATER	18.02 TIES 8320.93 0.00	756.84	DISCHAF	RGED QUA	NTITIES			
LOADED QUANTIT  TOTAL CALCULATED VOL  FREE WATER  GROSS STANDARD VOLUME	18.02 TIES 8320.93	756.84	DISCHAF	RGED QUA	NTITIES			
LOADED QUANTIT  TOTAL CALCULATED VOL  FREE WATER  GROSS STANDARD VOLUME  S & W VOLUME	18.02 TIES 8320.93 0.00	756.84			NTITIES			
LOADED QUANTIT  TOTAL CALCULATED VOL  FREE WATER  GROSS STANDARD VOLUME  S & W VOLUME	18.02 TIES 8320.93 0.00	756.84		RGED QUA	NTITIES			
LOADED QUANTIT  TOTAL CALCULATED VOL  FREE WATER	18.02  FIES  8320.93  0.00  8320.93	756.84	8			SLOPS ON BOARD		
LOADED QUANTIT TOTAL CALCULATED VOL FREE WATER GROSS STANDARD VOLUME S & W VOLUME (NET) STANDARD VOLUME	18.02  TIES  8320.93  0.00  8320.93	756.84  349479.06  0.00  349479.06	8	3.96200		SLOPS ON BOARD		
LOADED QUANTIT  TOTAL CALCULATED VOL  FREE WATER  GROSS STANDARD VOLUME  S & W VOLUME  (NET) STANDARD VOLUME  ARE SLOPS INCLUDED IN CALC	18.02  TIES  8320.93  0.00  8320.93	756.84  349479.06  0.00  349479.06	8	3.96200		SLOPS ON BOARD		

F-10								Page 1 of 2
PORT / TERMINAL: Lak	ke Charles, L	_a	/ Citgo		OFFICE LAKE	CHARLES, LA	TEL (337) 625-1455	
VESSEL CCL 26	**************************************	***************************************	VOY#		INSPECTOR(S):	C. BUSBY	SGS FILE 107438	
CARGO SULFIDIC CA	AUSTIC				CLIENT CESE	nvironmental	REF TBD	
SGS	***************************************		SHOR AT LOADING	,	ASUREMENTS TRANSFER	S (STATIC)  AT DISCHARGE	Oil Gas & Chemicals S	Services Division,
SHORETANK # 182	***************************************	REF HEI	GHT: FLOATIN	G ROOF G	AUGE UNITS	FT-IN D FT D	MM OTHER:	
	21/2008 TI			E: 7/22/2008 TI	ME: 2:30		OPEN	CLOSE
OBS. REF. HEIGHT	INNAGE	#WATER INNAGE	OBS. REF. HEIGHT	§ INNAGE	*WATER INNAGE	INSPECTOR:	C. BUSBY	C. BUSBY
30-6-5/16 2	28-0-5/8	0-0-0	11-10-1/4	0-0-0	6-4-5/8	WITNESS:		
						API @ 60ºF		
						SOURCE		
						AMBIENT AIR TEMP	96.0	87.0
						TEMP OF TANK SHELL	93	90
						AVG TEMP (0.5%F)	93.0	90.0
§ MEASUREMENTS TA	KEN IN ACC	ORDANCE WITH		INNAGE: API MPI	/IS 3.1A.9.2	AVG INNAGE	28-0-5/8	9-5-0
* FREE WATER DETER	RMINED IN AC	CORDANCE WITH	:	API MPMS 3.1A.1	0.1	AVG WATER INNAGE		
# TEMPERATURES TAI	KEN IN ACCO	PRDANCE WITH	:	API MPMS 7.6.4		VOLUME UNITS 🗸 BB		
^ VOLUME CALCULAT	ED IN ACCOR	RDANCE WITH	-	ASTM D 1250-04		TABLE VOLUME "	9004.97	2994.55
PROD TEMP	92.9 x 0.	. <b>875</b> = 81.2875	PROD TEMP	90.1 x 0	<b>.875 =</b> 78.8375	FREE WATER	0.00	0.00
(+) AIR TEMP	96.0 x 0.	.125 = 12.0000	(+) AIR TEMP	87.0 x 0	.125 = 10.8750	OBSERVED VOLUME	9004.97	2994.55
TANK SHELLTEMPERA	TURE:	<b>=</b> 93	TANK SHELL TE	MPERATURE	= 90	TANK SHELL CORR.	1.00000	1.00000
ROOF CORRECTION IN	VFO - STAND	ARD API:				OBSERVED VOLUME	9004.97	2994.55
CRITICAL ZONE RANG	E FROM	то	ROOF	LEG 🗌 HIGH	l 🗔 LOW	ROOF CORRECTION	0.00	0.00
		OP	EN	CL	OSE	GROSS OBSERVED VOL.	9004.97	2994.55
AVG INN/ULL IN CRITIC	CAL ZONE	YES	☑ NO	YES	✓ NO	^VCF TABLE : (t 6B )	1.00000	1.00000
SIDEGAUGE/ATG						GROSS STANDARD VOL.	9004.97	2994.55
TEMPERATURES *F		# PROBE	MERCURY	# Y PROBE	MERCURY	DIFFERENCE	601	0.42
* ACTION TAKEN :		U M	0 L	U I N		CUSTODY TRANSFER SAM	PLE:	
		₹ M 92.9		₩ 90.1		API @ 60ºF		
		OTHER*		OTHER*		S & W % VOL.		
SIDETEMP/REMOTE		92	2.6	9	0.0	S & W VOLUME		
PROBE WAS CHECKE	D PRIOR TO	USE 🗸 YES	NO 🗆	NOT USED		NET STANDARD VOLUME		
SAMPLING				□ U □ I	n IL	WCF TABLE : (t 8 )		
* ACTION TAKEN :		Or De	y <b>∀</b> R	От Ов	3 DR	GROSS STANDARD WT.		
		OTHER*		OTHER*	······································	NET STANDARD WEIGHT		

OTHER*

OP TEMP:

CHAR DATE: OA Copyright SGS-OG&C 2001 - Rev April 2005 OTHER*

Ref TSh Temp: 60

M³ Services rendered according to published General Terms and Conditions

LBS

OTHER:

OTHER:

**WEIGHT UNITS** 

□ LT

" IS TABLE VOLUME IN V BBLS

MT

AT ULLAGES :

F-10								Page 2 of 2
· · · · · · · · · · · · · · · · · · ·	L: Lake Charles, L	3	//TH : API MPMS 3.1A.10.1 AVG WATER INNAGE 0-0-0 0-0-0  1 : API MPMS 7.6.4 VOLUME UNITS  BBLS  M³ OTHER:  : ASTM D 1250-04 TABLE VOLUME " 5928.98 3642.88  250 PROD TEMP 92.3 x 0.875 = 80.7625 FREE WATER 0.00 0.00  500 (+) AIR TEMP 87.8 x 0.125 = 10.9750 OBSERVED VOLUME 5928.98 3642.88					
VESSEL CCL 26	······································	. (4			<del></del>			
CARGO SULFID				<u></u>	CLIENT CESE	nvironmental	REF TBD	
	70 0700110		QUU9	E TANK MEA	<u></u>			
<b>SGS</b>		×		# * * * * * * * * * * * * * * * * * * *		,,	Oil Gas & Chemicals S	ervices Division.
SHORETANK #	182	REF HEI	GHT: FLOATIN	G ROOF G	AUGE UNITS	FT-IN II FT II	MM OTHER:	
OPEN DAT	E: 7/22/2008 TI	ME: 14:15	CLOSE DAT	E: 7/22/2008 TI	ME: 20:45		OPEN	CLOSE
OBS. REF. HEIGHT	§ INNAGE	" WATER INNAGE	OBS. REF. HEIGHT	§ INNAGE	#WATER INNAGE	INSPECTOR:	C. BUSBY	C. BUSBY
21-0-0	18-6-3/16	0-0-0	13-10-3/4	11-5-1/8	0-0-0	WITNESS:		
						API @ 60ºF		
						SOURCE		
······································					***************************************	AMBIENT AIR TEMP	95.6	87.8
***************************************						TEMP OF TANK SHELL	94	92
THE RESERVE THE PROPERTY OF THE PARTY OF THE						AVG TEMP (0.5°F)	93.5	92.5
§ MEASUREMEN	TS TAKEN IN ACC	PRDANCE WITH	:	INNAGE: API MPM	S 3.1A.9.2	AVG INNAGE	93.5 92.5 18-6-3/16 11-5-1/8 0-0-0 0-0-0	
× FREE WATER D	ETERMINED IN AC	CORDANCE WITH	:	API MPMS 3.1A.10	.1	AVG WATER INNAGE	LS M ³ OTHER:	
# TEMPERATURE	S TAKEN IN ACCO	RDANCE WITH	:	API MPMS 7.6.4		VOLUME UNITS V BBI		
^ VOLUME CALC	ULATED IN ACCOR	RDANCE WITH	*	ASTM D 1250-04	··········	TABLE VOLUME "		
PROD TEMP	93.4 x 0.	875 = 81.7250	PROD TEMP	92.3 x 0.	<b>875</b> = 80.7625	FREE WATER		
(+) AIR TEMP	95.6 x 0.	125 = 11.9500	(+) AIR TEMP	87.8 x 0.	<b>125</b> = 10.9750	OBSERVED VOLUME	5928.98	3642.88
TANK SHELLTEM	PERATURE:	= 94	TANK SHELL TE	MPERATURE	= 92	TANK SHELL CORR.	1.00000	1.00000
ROOF CORRECT	ION INFO - STANDA	ARD API:				OBSERVED VOLUME	5928.98	3642.88
CRITICAL ZONE	RANGE FROM	TO	ROOF I	LEG 🗌 HIGH	Low	ROOF CORRECTION	0.00	0.00
		OP	EN	CLC	DSE	GROSS OBSERVED VOL.	5928.98	3642.88
AVG INN/ULL IN O	CRITICAL ZONE	YES	<b>∠</b> NO	YES	y NO	^VCF TABLE : (t 6B )	1.00000	1.00000
SIDEGAUGE/ATG						GROSS STANDARD VOL.	5928.98	3642.88
TEMPERATURES	; ºF	# Y PROBE	MERCURY	# Y PROBE	MERCURY	DIFFERENCE	228	6.10
* ACTION TAKEN	٧:	OU OM				CUSTODY TRANSFER SAM	PLE:	
		₩ M 93.4		✓ M 92.3		API @ 60ºF		
		OTHER*		OTHER*		S & W % VOL.		
SIDETEMP/REMO	OTE					S & W VOLUME		
PROBE WAS CH	ECKED PRIOR TO	USE YES	NO 🗌	NOT USED		NET STANDARD VOLUME		
SAMPLING	***************************************	Du Dw				WCF TABLE : (t 8 )		
* ACTION TAKEN	V :	От □в	<b></b>	От Пв	□ R	GROSS STANDARD WT.	***************************************	
		OTHER*		OTHER*		NET STANDARD WEIGHT		
AT ULLAGES:						WEIGHT UNITS LT	MT Y LBS	OTHER:

OP TEMP:

CHEANGATE:

DAGODYright SGS-OG&C 2001 - Rev April 2005

CO 7-21-02

Ref TSh Temp: 60

OTHER:

** IS TABLE VOLUME IN Y BBLS M3

Page	1	O.F	

PORTY   TERMINAL: Lake Charles, La									·					·	
DATE:   7721/2008 CARGO: SULFIDIC CAUSTIC   CLIENT: CES Environmental   REF: TBD	PORT/	TERMINAL:	Lake Charles,	La	/ Cito	go			OFFICE: LAK	E CHARLES,	LA	TEL: (337)	625-1455		
VESSEL MEASUREMENT SYSTEM   V OPEN   CLOSE/RESTRICTED   OII Gas & Chemicals Services Division   ARRIVAL   V OPEN   CARGO TANKS   DALLASTTANKS   NOWOTHER CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW THE CARGO   NOW	VESSEL	:CCL 26			VOY	#:			INSPECTOR(S):	C. BUSBY		SGS FILE: 1	07438		7
ARRIVAL     OPERATURE   OII Gas & Chemicals Services Division   ONNOTHER CARGO   ONNOTHER	DATE:	7/21/2	008 CARGO:	SULFIDIC C	AUSTIC				CLIENT: CES	Environment	al	REF: TBD			
ARRIVAL     OPERATURE   OR Gas & Chemicals Services Division   OFFICE   ORGO TANKS   BALLAST TANKS   NONOTHER CARGO   OFFICE	C	10	**************************************	***************************************	VES	SSEL	MEASUF	REMENT	SYSTEM	✓ OPEN	CLOSE / F	RESTRICTED		***************************************	
UNITS:	JL	19			1					·			Chemicals Se	ervices Division.	
TANK   REFERENCE   DOSSERVED   HEIGHT   NAME   HEIGHT   NAME		Y AT L	DADING	AT TRANS	HIPMENT		DISCHAR	GE	CARG	O TANKS	BALL	AST TANKS	NO	N/OTHER CARG	O
HEIGHT   REFERENCE   HEIGHT    UNITS :	<b>V</b>	FT-IN	FT	FT MM OTHER: UNITS: BBLS U.S. GALS M3 OTHER:											
No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.	TANK #			n INNAGE		TEMPER	ATURES °F	1	1		1		^ V.C.F.	1	T *
1C 16-2-1/2 16-2-1/2 11-9-34 0-0-0 91.7 91.9 92.4 92.0 11-9-34 2838.69 0.00 2838.69 1.00000 2838.69 C C C 16-2-1/2 16-2-1/2 11-4-1/4 0-0-0 91.7 91.6 92.7 92.0 11-4-1/4 3128.57 0.00 3126.57 1.00000 3126.57 C C C C C C C C C C C C C C C C C C C		HEIGHT			INN	§ P	ROBE	TEMP	MEASURE		WATER	,	(t 6B )		
3C 16-2-3/4 16-2-3/4 9-7-1/2 0-0-0 92.2 92.2 92.3 92.2 9-7-1/2 2373.69 0.00 2373.69 1.00000 2373.69 C  PROSE WAS CHECKED PRIOR TO USE	1C	16-2-1/2		11-9-3/4	0-0-0	91.7	91.9 92.4	92.0	11-9-3/4		0.00	<del></del>	1.00000	<del></del>	C
3C 16-2-3/4 16-2-3/4 9-7-1/2 0-0-0 92.2 92.2 92.3 92.2 9-7-1/2 2373.69 0.00 2373.69 1.00000 2373.69 C	2C	16-2-1/2	16-2-1/2	11-4-1/4	0-0-0	91.7	91.6 92.7	92.0	11-4-1/4	3126.57	0.00	3126.57	1.00000	3126.57	c
PROBE WAS CHECKED PRIOR TO USE  YES NO NOT USED TOTALS 8338.95 0.00 8336.95 8338.95  GAUGE LOCATION: Y STANDPIPE  G.H. on Expansion Trunk  CORRECTED MEASURE: w = Wedge corrected, t = Trim corrected API @ 60PF  SOURCE:  GAUGE POSITION: C = Center of tank F = Forward of Center A = Aft of Center S & W - VOL. %: SOURCE:  SAMPLES DRAWN: 2 x 1 OT PER TANK FIUNNING  S & W - VOL: WCF TABLE: (t 8 )  BALLAST TANKS PERMANENT  Y YES IF NO (SEE F-15 BALLAST TANKS) OR STANDARD VOLUME  BEALLAST TANKS PERMANENT  S YES IF NO (SEE F-15 BALLAST TANKS) OR STANDARD WEIGHT  SEASUCTION SEAL #S: NET STANDARD WEIGHT  DRAFT: FWD (P) 9-6 AFT (P) 9-6 LIST: 0.0 ° (P) / (S) TOTAL CALC. VOL. DEPARTURE  SEA CONDITION: CALM IN PORT  AST M D 1250-04  VOLUME CALCULATED IN ACCORDANCE WITH AST M D 1250-04  VOLUME CALCULATED IN ACCORDANCE WITH API MPMS 17.2.5.2  SEA CONDITION: CALM IN PORT API MPMS 17.2.5.2  SEA CONDITION: CALM IN PORT API MPMS 17.2.5.2  SEACONDITION: CALM IN PORT API MPMS 17.2.5.2	3C	16-2-3/4	16-2-3/4	9-7-1/2	0-0-0	<del></del>		92.2	9-7-1/2	2373.69	0.00	2373.69	1.00000	2373.69	tc
GAUGE LOCATION: STANDPIPE G.H. on Expansion Trunk CORRECTED MEASURE: w = Wedge corrected, t = Trim corrected  OTHER: API @ 60°F SOURCE:  **GAUGE POSITION: C = Center of tank F = Forward of Center A = Aft of Center S & W - VOL %: SOURCE:  SAMPLES DRAWN: 2 x 1 QT PER TANK RUNNING S & W - VOL: WCF TABLE: (t 8 )  NET STANDARD VOLUME  BALLAST TANKS PERMANENT YES IF NO (SEE F-15 BALLAST TANKS) GROSS STANDARD WEIGHT  SEASUCTION SEAL #'S: NET STANDARD WEIGHT  DRAFT: FWD (P) 9-6 AFT (P) 9-6 LIST: 0.0 ° (P) / (S) TOTAL CALC. VOL. DEPARTURE 8338.95  (S) 9-6 (S) 9-6 REMARKS:  SEA CONDITION: CALM IN PORT ASTM D 1250-04  C. BUSBY LIQUID LEVEL GAUGES IN ACCORDANCE WITH API MPMS 17.2.5.2  HECKED VESSEL'S STAFF INSPECTOR STEMPERATURE DETERMINATION IN ACCORDANCE WITH API MPMS 17.2.5.3					<del> </del>			<b> </b>				<u> </u>	<del>                                     </del>		1-
GAUGE LOCATION: STANDPIPE G.H. on Expansion Trunk CORRECTED MEASURE: w = Wedge corrected, t = Trim corrected  OTHER: API @ 60°F SOURCE:  **GAUGE POSITION: C = Center of tank F = Forward of Center A = Aft of Center S & W - VOL %: SOURCE:  SAMPLES DRAWN: 2 x 1 QT PER TANK RUNNING S & W - VOL: WCF TABLE: (t 8 )  NET STANDARD VOLUME  BALLAST TANKS PERMANENT YES IF NO (SEE F-15 BALLAST TANKS) GROSS STANDARD WEIGHT  SEASUCTION SEAL #'S: NET STANDARD WEIGHT  DRAFT: FWD (P) 9-6 AFT (P) 9-6 LIST: 0.0 ° (P) / (S) TOTAL CALC. VOL. DEPARTURE 8338.95  (S) 9-6 (S) 9-6 REMARKS:  SEA CONDITION: CALM IN PORT ASTM D 1250-04  C. BUSBY LIQUID LEVEL GAUGES IN ACCORDANCE WITH API MPMS 17.2.5.2  HECKED VESSEL'S STAFF INSPECTOR STEMPERATURE DETERMINATION IN ACCORDANCE WITH API MPMS 17.2.5.3						<del> </del>				<b> </b>		<u> </u>	<del>                                     </del>		+-
GAUGE LOCATION: STANDPIPE G.H. on Expansion Trunk CORRECTED MEASURE: w = Wedge corrected, t = Trim corrected  OTHER: API @ 60°F SOURCE:  **GAUGE POSITION: C = Center of tank F = Forward of Center A = Aft of Center S & W - VOL %: SOURCE:  SAMPLES DRAWN: 2 x 1 QT PER TANK RUNNING S & W - VOL: WCF TABLE: (t 8 )  NET STANDARD VOLUME  BALLAST TANKS PERMANENT YES IF NO (SEE F-15 BALLAST TANKS) GROSS STANDARD WEIGHT  SEASUCTION SEAL #'S: NET STANDARD WEIGHT  DRAFT: FWD (P) 9-6 AFT (P) 9-6 LIST: 0.0 ° (P) / (S) TOTAL CALC. VOL. DEPARTURE 8338.95  (S) 9-6 (S) 9-6 REMARKS:  SEA CONDITION: CALM IN PORT ASTM D 1250-04  C. BUSBY LIQUID LEVEL GAUGES IN ACCORDANCE WITH API MPMS 17.2.5.2  HECKED VESSEL'S STAFF INSPECTOR STEMPERATURE DETERMINATION IN ACCORDANCE WITH API MPMS 17.2.5.3						<del>                                     </del>			<b> </b>		1			<del>                                     </del>	+
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SEASUCTION SEAL #S:         NET STANDARD WEIGHT           DRAFT: FWD (P) 9-6	NET STANDARD VOLUME														
DRAFT:         FWD (P) 9-6         AFT (P) 9-6         LIST: 0.0 ² (P) / (S)         TOTAL CALC. VOL. DEPARTURE         8338.95           (S) 9-6         (S) 9-6         REMARKS:           SEA CONDITION: CALM IN PORT         ^ VOLUME CALCULATED IN ACCORDANCE WITH         ASTM D 1250-04           C. BUSBY         ¤ LIQUID LEVEL GAUGES IN ACCORDANCE WITH         API MPMS 17.2.5.2           HECKED         VESSEL'S STAFF         INSPECTOR         \$TEMPERATURE DETERMINATION IN ACCORDANCE WITH         API MPMS 17.2.5.3	BALLA	ST TANKS F	ERMANENT	Y YES	IF NO	(SEE F-15	BALLAST	TANKS)	GROSS STANI	DARD WEIGHT					
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SEA CONDITION: CALM IN PORT  C. BUSBY  C. BUSBY  **LIQUID LEVEL GAUGES IN ACCORDANCE WITH API MPMS 17.2.5.2*  **LIQUID LEVEL GAUGES IN ACCORDANCE WITH API MPMS 17.2.5.2*  **LIQUID LEVEL GAUGES IN ACCORDANCE WITH API MPMS 17.2.5.3*  **LIQUID LEVEL GAUGES IN ACCORDANCE WITH API MPMS 17.2.5.3*	DRAFT	DRAFT: FWD (P) 9-6 AFT (P) 9-6 LIST: 0.0 (P) / (S) TOTAL CALC. VOL. DEPARTURE 8338.95													
C. BUSBY  **LIQUID LEVEL GAUGES IN ACCORDANCE WITH API MPMS 17.2.5.2  **LIQUID LEVEL GAUGES IN ACCORDANCE WITH API MPMS 17.2.5.3  **LIQUID LEVEL GAUGES IN ACCORDANCE WITH API MPMS 17.2.5.3		(	S) 9-6	(S	) 9-6	***************************************		·	<del></del>			·		***************************************	
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PORT / TERM	MNAL: Lake Charles,	La / Citgo	OFFICE: LAKE CHARLES, LA	TEL: (337) 625-1455
VESSEL: CC	L 26	VOY #:	INSPECTOR(S): C. BUSBY	SGS FILE: 107438
DATE:	7/21/2008 CARGO:	SULFIDIC CAUSTIC	CLIENT: CES Environmental	REF: TBD
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^ VOLUME CALCULATED IN ACCORDANCE WITH ASTM D 1250-04  On behalf of our client(s) we would like to bring to your attention that in our opinion:  Bbls of LIQUID MATERIAL  Bbls of NON-LIQUID MATERIAL  remains on board your vessel. To the extent we are aware of contractual relationships, this material belongs to our client(s) and should be pumped ashore. In case you are unable to do so please indicate your reasons below. In any event, we have to advise our client(s) of the above and reserve his right to seek compensation for the underviewed amount.  Statements with regards to flowability and similiar advisory services express personal opinions without responsibility for SGS.  OBQ TESTED YES NO IF NO REASON	0.00	0.00	0.00	00000	1	0.00	0-0-0		0-0-0	0-0-0	0-0-0		16-2-1/2	16-2-1/2	2C
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ROB SAMPLED YES ✓ NO IF NO REASON		EASON	IO IF NO R	s 🔽	YE	TED	OBQ TEST		_		nt.	noun ty an	ne undelivered ar pards to flowabili	pensation for the ements with reg	com State
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DRAFT: FWD (P) 1-3 AFT (P) 1-3 LIST: LECYCO C. BUSBY (S) 1-3 (S) 1-3	: ⁹ (P) / (S	LIST	***************************************	A		· · · · · · · · · · · · · · · · · · ·	DRAFT:		DITORY					£ (DEEX 2016).	r A Marine of Process
C. BUSBY (S) 1-3 (S) 1-3  VESSEL'S STAFF INSPECTOR SEA CONDITION: CALM IN PORT		······································	(0) 1-3	OOT	RA INI	······································	SEACO			······································			I 'S STAFE	W. 17/35-1: NO. 30	HELA

		La / Citgo			OFFICE	: LAK	E CHARLES	3, LA	TEL:	(337)6	25-14	55	
PORT / TERMINAL: Lake Charles, La / Citgo				OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455									
VESSEL: CCL 26 VOY #:				INSPECTOR(S): C. BUSBY									
DATE: 7/21/2008				SGS FILE: 107438									
CARGO: SULFI	IDIC CAUSTIC				CLIENT	: CES	Environme	ntal	REF:	TBD			
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TANK #: MATERIAL		T-3 CENTER MILD STEEL				<u> </u>		<del> </del>					
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APPARENT CO		ACCEPTABLE				<b></b>		†	- Note of the second	一十			
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<b>9</b>		Fage 1 of
PORT / TERMINAL: Lake Charles, La / Citgo	OFFICE: LAKE CHARLES, LA	TEL: (337) 625-1455
VESSEL: CCL 26 VOY #:	INSPECTOR(S): C. BUSBY	
DATE: 7/21/2008	SGS FILE: 107438	
CARGO: SULFIDIC CAUSTIC	CLIENT: CES Environmental	REF: TBD
CCC TANK CLEANL	INESS INSPECTION	
<u> 303</u>		s & Chemicals Services Division.
$lacktriang$ at Loading $\Box$ at transfer $\Box$ at discharge	AS INSPECTION ONLY  WITH CUSTO	AS PRE-INSPECTION ODY TRANSFER
USE A SEPARATE	FORM F-9 PER INSPECTION	)D: INANOFER
THIS IS THE FIRST SECOND	THIRD	TH INSPECTION
TANK(S): 1-3 CENTER		
BASED ON SUBMITTED INFORMATION (SEE LIRIS	F-7) AND :	**************************************
VISUAL CHECK FOR RESIDUES FROM DE	ECKLEVEL (SEE LIRIS F-15 OR F-20)	
MEASURING OF RESIDUES FROM DECK	LEVEL (SEE LIRIS F-16)	
PHYSICAL ENTRY (TANK SAFE ATMOSPI	HERE STATEMENT BELOW MUST BE CO	OMPLETED PRIOR TO ENTRY)
yar-ng		
AND VISUAL INSPECTION		
	TICAL REPORT ON FILE)	
AND TESTING OF HEATING C	OILS	
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TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING BI		
SIGNATURES:		C. BUSBY
FOR VESSEL	FOR TERMINAL	INSPECTOR
* IS THIS TANK ACCEPTANCE BASED SOLELY ON SUBMITTED		YES NO
parang.	age to take	MEDIATELY.
		***************************************
TANK SAFE AT	MOSPHERE STATEMENT	
ne undersigned certifies that those tank(s) indicated on the		d and gas freed as
ported on the reverse side of the SGS F-7 and that the tar		
e undersigned hereby grants permission for SGS person		sure for entry,
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SIGNATURES :		
FOR VESSEL	FOR TERMINAL	
	FOR IEDWINAL	
PRINT NAME (S):		

NOTE: DO NOT ENTER THE TANK(S) if this TANK SAFE ATMOSPHERE STATEMENT is not signed and contact your supervisor for further instructions.

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EPAHO081001850

Services rendered according to published General Terms and Conditions

F-14							Page	t of
PORT / TERMINAL: Lake	e Charles, La / Citgo		OFFICE: LAKE C	HARLES,	LA 7	EL: (3	37) 625-14	455
VESSEL: CCL 26	VOY #:		INSPECTOR(S):	·				
DATE: 7/21/2008	•	·	SGS FILE: 10743	······································				
CARGO: SULFIDIC CA	USTIC		CLIENT: CES En	·····	al F	EF: TE	3D	
SGS		CARGO	QUANTITY OP		Gas & Ch	emicals	Services E	Division.
✓ AT LOADING	AT TRANSFER AT DIS	CHARGE	RESIDUAL	CLEA	N PRODUC	TS 🗹	CHEMICAL	S/GASES
ABOVE VESSEL WILL	LOAD DISCH	HARGE 🗸	AT THIS TERMINA	L 🗀 A	T (SPECIF	():		
AS PER CHARTE	R PARTY AMENDED	C/P PRIN	CIPAL'S INSTRUCTIO	ons 🗍	OTHER (SF	ECIFY)		
FOLLOWING QUANTITY	s) of Sulfidic Causti	ic.						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
<u> </u>			201100				<i>**</i>	
OR: (	) L'	T MT BLS M3	POUNDS	✓ C	THER (SPI		TO 9-6 D	RAFT ERV. TEMP
OH: [1	, ,	DLU II III	(j VIIII)			t Filt		-134. I F-141L
*PLUS OR MINUS	%" IS THE OPTION		VESSEL	7	TERMINAL		7°***1	LIENT
PLUS OR MINUS	%" IS OPTED FOR	RA	VESSEL	L)	TERMINAL	<del></del>	L C	LIENT
THE ABOVE QUANT	ΠΤΥ(S): - WILL BE	DETERMINED	BY 🗹 SHIP'S	STOP	o s	HORE S	TOP	
	- WILL BE	DELIVERED / D	DISCHARGED FROM	TANK(S)	ST 182			
				`				
	- AND REC	CEIVED / LOADE	ED INTO TANK(S) 1-	`				
ressel's co-mingling				3 C		0		
		UR PRINCIPAL	ED INTO TANK(S) 1-	3 C <b>s</b>				
CARGO REQUIRES	ACCEPTABLE TO OR	UR PRINCIPAL	ED INTO TANK(S) 1-	3 C <b>s</b>	□ N	ENDING		
CARGO REQUIRES SIGNATURES)	ACCEPTABLE TO OR SEGREGATION	UR PRINCIPAL	PARATION DATE:	3 C <b>s</b>	I NIETRIC BL	ENDING		
CARGO REQUIRES SIGNATURES)	ACCEPTABLE TO OUR SEGREGATION VESSEL'S STAFF: EPRESENTATIVE:	UR PRINCIPAL N SEP	PARATION  DATE:  DATE:	3 C S VOLUM	I N TETRIC BL TIME :	ENDING		
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# Inspection Report

TRANSFER

Subject: GOLDEN CHARLOTTE

Date:

9/23/2008

Our ref.: 115164

Product: SPENT SULFHURIC ACID

Location : Port Arthur, TX / CES ENVIOROMENTAL

Client ref.:

Client:

CES ENVIOROMENTAL

**Summary of Figures** Bbls @ 60°F Gallons @ 60 °F Long Tons **Metric Tonnes Pounds** 

**Vessel Measurements (GOLDEN CHARLOTTE)** 

GSV

Total Shore figures transfer Average API Gravity @ 60°F -0.7

9,091.93

381,861.06

1,535.968

1.560.617

3,440,568.15

Barge's Measurements (CCL 26)

Vessel's figures before loading (OBQ) Free Water Vessel's figures before loading (OBQ) Liquid Vessel's figures before loading (OBQ) Non Liquid

Vessel's figures before loading (OBQ) Vessel's figures TCV on board after loading Vessel's figures TCV loaded Vessel's figures Free Water loaded Vessel's figures GSV loaded

343.41 9,447.15

0.00

14,423.22 396,780.30 382,357.08 0.00

9,103.74 0.00 9,103.74 382,357.08

Vessel's Experience Factor

Cargo stowage Cargo tanks no(s):

GOLDEN CHARLOTTE[1S, 10P], CCL 26[1, 2, 3)

**Letter of Protest** 

Subject: GOLDEN CHARLOTTE

### Samples (see report)

### Quality N/A

### **Comments**

### **Time Log**

9/22/2008 0840

0925

- * END OF SEA PASSAGE
- * NOTICE OF READINESS TENDERED

* PILOT ON BOARD 1205

1340 INSPECTOR NOTIFIED

1410 * FIRST LINE ASHORE

* VESSEL ALL FAST 1430

INSPECTOR ARRIVED-AWAITING COAST GUARD CLEARANCE 1436

1520 **CCL 26 ALONGSIDE** 

1648 INSPECTOR ABOARD

1700 COMMENCE KEY MEETING

SGS North America Inc.

Oil, Gas & Chemicals Services

t(409-727--1035) www.sgs.com

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	1707	* NOTICE OF READINESS ACCEPTED
	1718	COMPLETE KEY MEETING
	1718	COMMENCE CARGO INSPECTION
	1745	COMPLETE CARGO INSPECTION
	1810	COMPLETE CARGO CALCULATIONS
	1820	* CARGO HOSE CONNECTED-1X6"
	1915	* COMMENCE DISCHARGE
	1936	INSPECTOR DEPARTED
9/23/2008	0145	* COMPLETE DISCHARGE
	0205	* CARGO HOSE DISCONNECTED
	0400	INSPECTOR NOTIFIED
	0456	INSPECTOR ARRIVED
	0456	COMMENCE ROB INSPECTION
	0510	COMPLETE ROB INSPECTION
	0510	COMPLETE ROB CALCULATIONS-AWAITING VESSEL SAILING, BARGE SHIFT TO DOCK
	0645	BARGE SHIFTED TO DOCK
	0645	COMMENCE CARGO INSPECTION-CCL26
	0730	COMPLETE CARGO INSPECTION-CCL 26
	0745	COMPLETE CARGO CALCULATIONS
	0815	COMPLETE PAPERWORK
	0836	SAMPLES IN SGS LAB
	0848	INSPECTOR DEPARTED
	_	

Additional events, Stoppages and Delays
9/22/2008 1436 INSPECTOR ARRIVED-AWAITING COAST GUARD CLEARANCE 9/23/2008 0510 COMPLETE ROB CALCULATIONS-AWAITING VESSEL SAILING, BARGE SHIFT TO DOCK

> Darren W. Le Blanc For SGS Oil, Gas & Chemicals Services 9/24/2008

Shore volume calculated in accordance with:

ASTM D 1250-04

Vessel volume calculated in accordance with ASTM D 1250-04

Procedures as per applicable MPMS Chapter 3.1a, 7, 8.1 or 8.2, 12.1 or 12.2, 17.1, 17.2, 17.4.

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# Inspection Report (LOADING)

Subject: CCL 26

Date:

9/5/2008

Our ref.: 112532

Product: SPENT CAUSTIC

Location: Lake Charles, La / CITGO

382,701.48

Client ref.: TBD

Client: CES ENVIRONMENTAL SERVICES

Summary of Figures	Bbis @ 60°F	Gallons @ 60°F	Long Tons	Metric Tonnes	Pounds
Shore Measurements					
Total Shore figures delivered GSV Average API Gravity @ 60°F	9,087.63	381,680.46			
Shoretanks no(s): ST 182, ST 182					
Vessel's Measurements					
Vessel's figures before loading (OBQ) Free Water	er 0.00				
Vessel's figures before loading (OBQ) Liqui	d 18.02				
Vessel's figures before loading (OBQ) Non Liqui	d 0.00				
Vessel's figures before loading (OBQ). Total	il 18.02	756.84			
Vessel's figures TCV on board after loading	9,129.96	383,458.32			
Vessel's figures TCV loaded	9,111.94	382,701.48			
Vessel's figures Free Water loaded	0.00	0.00			

Cargo stowage Cargo tanks no(s):

Vessel's figures GSV loaded

CCL 26[1C, 2C, 3C],

9,111.94

## **Samples**

Shore Tank – 2x1 Quart running Vessel – 2x1 Quart running on completion of load

# Quality

NONE

## **Time Log**

8/26/2008	0820	INSPECTOR NOTIFIED
	0825	VESSEL ARRIVED
	0840	VESSEL ALL-FAST
	0900	INSPECTOR ARRIVED
	0930	ST 182 GUAGED, TEMPERATURED, SAMPLED, AND OPENED
	0945	COMMENCED PRE LOADING DECK INSPECTION
	1015	PRE LOADING DECK INSPECTION COMPLETE
	1130	1 X 8 IN CARGO HOSE CONNECTED
	1145	COMMENCED LOADING
	2100	INSPECTOR NOTIFIED
	2200	INSPECTOR ARRIVED
	2320	COMMENCED POST LOADING DECK INSPECTIONLOADING COMPLETE
	2340	COMPLETED POST LOADING DECK INSPECTION

SGS North America Inc.

Oil, Gas & Chemicals Services

4701 E. NAPOLEON SULPHUR, LA 70663 t((337) 625-1455) f((337) 625-1721) www.sgs.com

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	2340	CARGO HOSE DISCONNECTED
	2345	COMMENCED CALCULATIONS
	2355	COMPLETED CALCULATIONS
8/27/2008	0005	ST 182 GUAGED, TEMPERATURED, AND CLOSED
	0020	INSPECTOR DEPARTED
9/4/2008	1500	VESSEL ARRIVED
	1500	INSPECTOR NOTIFIED
	1510	VESSEL ALL FAST
	1600	INSPECTOR ARRIVED
	1610	COMMENCED PRELOAD DECK INSPECTION
	1630	COMPLETED PRELOAD DECK INSPECTION
	1640	OPENED ST 182
	1940	1X8 CARGO HOSE CONNECTED
	2000	STARTED LOADING
9/5/2008	0800	INSPECTOR NOTIFIED
	0900	INSPECTOR ARRIVED
	0900	COMPLETED LOADING
	0910	COMMENCED POSTLOAD DECK INSPECTION
	0915	1X8 HOSE OFF
	0945	COMPLETED POSTLOAD DECK INSPECTION
	1040	COMMENCED CALCULATIONS
	1200	COMPLETED CALCULATIONS
	1245	INSPECTOR DEPARTED

Brett Daigle for SGS Oil, Gas & Chemicals Services 9/8/2008

Shore volume calculated in accordance with:

ASTM D 1250-04

Vessel volume calculated in accordance with:

ASTM D 1250-04

Procedures as per applicable MPMS Chapter 3.1a, 7, 8.1 or 8.2, 12.1 or 12.2, 17.1, 17.2, 17.4.

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11-1	
PORT / TERMINAL: Lake Charles, La / Citgo	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 26 VOY #:	INSPECTOR(S): C. BUSBY
DATE: 8/26/2008	SGS FILE: 112532
CARGO: Spent Caustic	CLIENT: CITGO/CES REF:

SGS

## **TIME LOG**

Oil Gas & Chemicals Services Division.

5	AT LO	ADING AT TRANSFER	AT DISCHARGE
		YEAR 2008 / MONTH JAN FEB MAR APR MAY JUN JUL	AUG SEP OCT NOV DEC
Date	Hour		
8/26	08:20	INSPECTOR NOTIFIED	
8/26	08:25	VESSEL ARRIVED	
8/26	08:40	VESSEL ALL-FAST	
8/26	09:00	INSPECTOR ARRIVED	
3/26	09:30	ST 182 GUAGED, TEMPERATURED, SAMPLED, AND OPENED	
3/26	09:45	COMMENCED PRE LOADING DECK INSPECTION	
3/26	10:15	PRE LOADING DECK INSPECTION COMPLETE	
3/26	11:30	1 X 8 IN CARGO HOSE CONNECTED	
3/26	11:45	COMMENCED LOADING	
3/26	21:00	INSPECTOR NOTIFIED	
3/26	22:00	INSPECTOR ARRIVED	
3/26	23:20	COMMENCED POST LOADING DECK INSPECTIONLOADING COMPLETI	E
3/26	23:40	COMPLETED POST LOADING DECK INSPECTION	
3/26	23:40	CARGO HOSE DISCONNECTED	
3/26	23:45	COMMENCED CALCULATIONS	
3/26	23:55	COMPLETED CALCULATIONS	
3/27	00:05	ST 182 GUAGED, TEMPERATURED, AND CLOSED	
3/27	00:20	INSPECTOR DEPARTED	
9/4	15:00	VESSEL ARRIVED	
9/4	15:00	INSPECTOR NOTIFIED	
9/4	15:10	VESSEL ALL FAST	
9/4	16:00	INSPECTOR ARRIVED	
9/4	16:10	COMMENCED PRELOAD DECK INSPECTION	
9/4	16:30	COMPLETED PRELOAD DECK INSPECTION	
9/4	16:40	OPENED ST 182	
9/4	19:40	1X8 CARGO HOSE CONNECTED	
9/4	20:00	STARTED LOADING	
9/5	08:00	INSPECTOR NOTIFIED	
9/5	09:00	INSPECTOR ARRIVED	
9/5	09:00	COMPLETED LOADING	
9/5	09:10	COMMENCED POSTLOAD DECK INSPECTION	
9/5	09:15	1X8 HOSE OFF	
9/5	09:45	COMPLETED POSTLOAD DECK INSPECTION	
DE T	LAYS AND	STOPPAGES:	
寸	1VOKED +	ARE SUBMITTED TO US.	TIME LOG PAGE 1 OF 2

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PORT / TERMINAL: Lake C	harles, La / Citgo	OFFICE: LAKE CHARLES, LA	TEL: (337) 625-1455
VESSEL: CCL 26	VOY #:	INSPECTOR(S): C. BUSBY	
DATE: 8/26/2008		SGS FILE: 112532	
CARGO: Spent Caustic		CLIENT: CITGO/CES	REF:

SGS

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# **TIME LOG**

Oil Gas & Chemicals Services Division.

<u> </u>	Z AT LOA		AT TRANSFER	AT DISCHARGE
	Υ	EAR 2008 / MONTH	AN FEB MAR APR MAY JUN	JUL AUG SEP OCT NOV DE
Date	Hour			
9/5	10:40	COMMENCED CALCULA		
9/5	12:00	COMPLETED CALCULA		
9/5	12:45	INSPECTOR DEPARTED		
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-3A			Page (TV) of SEE
PORT / TERMINAL: Lake C	Charles, La / Citgo	OFFICE: LAKE CHARLES, LA	TEL: (337) 625-1455
VESSEL: CCL 26	VOY #:	INSPECTOR(S): C. BUSBY	
DATE: 8/26/2008		SGS FILE: 112532	
CARGO: Spent Caustic		CLIENT: CITGO/CES	REF: TBD

# **VOYAGE ANALYSIS REPORT**

					On Gae	a Chemicals Cel	VICES DIVISION.
LOADIN	IG 🗆 V-\	TRANSFER	DISCHARGE	SUMMARY		Type of Voyage Simple	C/P DATE
Load Port/Termir	nal/Berth	ARRIVED	SAILED	Discharge Port/	Terminal/Berth	ARRIVED	SAILED
LAKE CHARLES	S/CITGO	8/26/2008	8/27/2008				
VOLUME UNITS		SUPPLIER	RECEIVER	VCF SHORE LOAD	VCF SHORE DISCH	VCF VESSEL LOAD	CF VESSEL DISCH
🗷 BBLS 🗌 GAI	Ls □ M³ □ L	- CITGO	CES ENV.				
DESCRIPTION	API	тсч	FW	GSV	S&W	NSV	Reference
I. COMPARISON	OF SHORE QU	ANTITIES IN CUS	TODY TRANSFER				
Bill of Lading 1.		9087.63	0.00	9087.63			(1)
Outturn 2.							(2)
Diff. 3.							(3)=(2) - (1)
Diff. % 4.							(4) = (3) / (1) x 100
Recalc. B/L 5.	(a	0	Recalculate if	B/L and O/T use	different tables.	İ	(5) (a) Vol. Diff.
II. VESSEL/SHO	RE QUANTITIES	AT(1)LOA	D PORT(S)			<u> </u>	_
Vessel Sail	ling /	A. 9129.96	0.00	9129.96	LIQUID	NON-LIQUID	(A)
ОВ	Q (All) E	18.02	0.00	18.02	18.02	0.00	(B)
Loa	ded (	9111.94	0.00	9111.94			(C)=(A) - (B)
Diff	erence [	24.31	0.00	24.31			(D)=(C)-[(1) or (5)]
Diff	erence % E	. 0.27%		0.27%			(E)=(D)/[(1)or(5)]x100
Load Vessel Ratio	> i	1.0027					(F)=(C)/[(1)or(5)]
Load VEF	6	à.					(G)
Theoretical Shore	ŀ	f					(H)=(C) / (G)
Theoretical Shore	Diff.	19087.63					(l)=(H) - [(1) or (5)]
Theoretical Shore	Diff. %	J100.00%					(J)=(i)/[(1) or (5)]x100
II. VESSEL/SHO	RE QUANTITIES	AT( ) DISC	HARGE PORT(S)				
Vessel Arri	····				LIQUID	NON-LIQUID	K)
ROE	B (All) L	.,					L)
Disc	charged N	1.					(M) = (K) - (L)
Diffe	erence N	1,		<u> </u>			(N) = (2) - (M)
Diffe	erence % C	<del>).</del>					(O) = (N) / (2) x 100
Discharge Vessel	Ratio F						(P) = (M) / (2)
Discharge VEF	G	1.					(Q)
Theoretical Shore	F	1.					(R) = (M) / (Q)
Theoretical Shore	Diff. S	).					(S) = (2) - (R)
Theoretical Shore	Diff. % T						(T) = (S) / (2) x 100
III. VESSEL/S CO	OMPARISON OF	LOADING AND D	ISCHARGE PORT(S	) VCE TABLE M	IUST BE CONSIST	FNT	
	erence U	<del>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</del>		1			(U) = (K) - (A)
Diffe	erence % V	,			LIQUID	NON-LIQUID	(V) = (U) / (A) x 100
OBQ/ROB Diffe	erence W	<i>i.</i>					(W) = (L) - (B)
ADJ TCV DIFF :	(Qua	TCV Difference (3 antity) / 0,00	) - OBQ (B) + ROB (L)	[S S&W at Load Por	5&W(1)/GSV(1)]X100 1t :	[5 S&W at Disch Po	5&W(2)/GSV(2)]X100 rt :
Comments :							
				<del></del>			
	IIKE ELLIOTT		NSPECTOR	Company :		Date Completed :	9/5/2008
Copyright SGS-OG&C	C June 1997 - Rev (	Jet 2003		Services rer	ndered according to p	oublished General Te	rms and Conditions

F*4						- 1 11 14 Mar 1991
<u> </u>		OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455				
VESSEL: CCL 26 VOY #:			INSPECTOR(S):		***************************************	
DATE: 8/26/2008			SGS FILE: 112			
CARGO: Spent Caustic	······································		CLIENT: CITGO	D/CES	REF: TBD	
SGS	VE	SSEL QUA	NTITY SUMI	MARY Oil Ga	s & Chemicals Se	rvices Division.
AT LOADING AT TE	RANSFER AT	DISCHARGE	☐ CRUDE O	L	<b>☑</b> PROD	UCTS
☐ API @ 60°F:	R.	D. 60ºF/60ºF		Density	Lbs/Gal @	<del></del>
S&W % VOL:						
SOURCE OF ANALYTICAL DAT	A: CITGO					
	Voi	LUME	WCF		WEIGHT	
	BBLS	U.S. GALS	(t 8 )	POUNDS	LONG TONS	METRIC TONS
VESSEL'S QUANTITIES	V.E.F. CO	RECTED :	☐ YES 🗹	NO	VEF:	
TOTAL CALCULATED VOL	9129.96	383458.32	2			
FREE WATER	0.00	0.00				
GROSS STANDARD VOLUME	9129.96	383458.32	2			
S & W VOLUME						
(NET) STANDARD VOLUME						
У ово			ROB			
LIQUID MATERIAL	18.02	756.84				1
NON-LIQUID MATERIAL	0.00	0.00				
FREE WATER						
	0.00	0.00				
TOTAL	18.02	756.84				
✓ LOADED QUANTIT	TES	,	DISCHARGED QUA	NTITIES		
·						
TOTAL CALCULATED VOL	9111.94	382701.48				
FREE WATER	0.00	0.00				
GROSS STANDARD VOLUME	9111.94	382701.48				
8 & W VOLUME						
NET) STANDARD VOLUME						
ARE SLOPS INCLUDED IN CAL	CULATIONS	YES	✓ NO	□ NO S	LOPS ON BOARD	
STOWAGE O/B VESSEL: 1-3 (	2					
REMARKS:						

F-1	Page of Si
PORT / TERMINAL: Lake Charles, La / Citgo	OFFICE LAKE CHARLES, LA TEL (337) 625-1455
VESSEL CCL 26 VOY#	INSPECTOR(S): C. BUSBY
DATE 8/26/2008	SGS FILE 112532
CARGO Spent Caustic	CLIENT CITGO/CES REF

CANGO Spent Causile			Crimiti O	TOO/OES	1 1444
SGS		SHORE QUAN	NTITY SUM		Gas & Chemicals Services Division.
✓ AT LOADING ☐ AT TRANS	SFER [	AT DISCHARGE	<b>☑</b> SHOR	E TANK (STATIC)	METER (DYNAMIC)
CUSTODY TRANSFER SAMPLE					
✓ API @ 60°F:	<u></u>	R.D. 60°F/60°F		Densi	ty Lbs/Gal @
S&W % VOL:					
SOURCE OF ANALYTICAL DATA: (	CITGO		Married Andrew State of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Community of Communi		
	UNITS	ST 182	ST 182		
TOTAL CALCULATED VOLUME	BBLS	4817.54	4270.09		
FREE WATER	BBLS	0.00	0.00		
GROSS STANDARD VOLUME	BBLS	4817.54	4270.09		
S & W VOLUME	BBLS				
(NET) STANDARD VOLUME	BBLS				
WCF TABLE (1 8 )					
GROSS STANDARD WEIGHT					
S & W WEIGHT			······································		
(NET) STANDARD WEIGHT					
<u> </u>	<u> </u>				
	UNITS			SHORELINE	TOTAL DELIVERED
TOTAL CALCULATED VOLUME	BBLS				9087.63
FREE WATER	BBLS				0.00
GROSS STANDARD VOLUME	BBLS				9087.63
S & W VOLUME	BBLS				
(NET) STANDARD VOLUME	BBLS				
				<b> </b>	GSV NSV SV @
GROSS STANDARD WEIGHT					
S & W WEIGHT					
(NET) STANDARD WEIGHT				<del>                                     </del>	

STOWAGE	STOWAGE O/B VESSEL: 1-C CENTER CARGO TANKS									
		B/L DATE: 8/27/2008								
REMARKS	QUANTITY CONFIRMED	QUANTITY CHANGES YES NO IF YES STATE REASON								
with	of									
with	of									
Date	Time									
Copyright SGS-6	OG&C June 1997 - Rev Oct 2003	Services rendered according to published General Terms and Conditions								

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F-10					Page 11 of 12
PORT / TERMINAL: Lake Charles,	La / Citgo	OFFICE	AKE CHARLES, LA	TEL (337) 625-1455	5
VESSEL CCL 26	VOY#	INSPECTO	R(S): C. BUSBY	SGS FILE 112532	
CARGO Spent Caustic		CLIENT (	CITGO/CES	REF	
CCC	SHOR	E TANK MEASUREMI	NTS (STATIC)		
<u> </u>	✓ AT LOADING	AT TRANSFER	T AT DISCHARGE	Oil Gas & Chemicals S	Services Division.
SHORETANK # 182	REF HEIGHT:	GAUGE UNITS	Ø FT-IN □ FT □	MM OTHER:	
OPEN DATE: 8/26/2008 T	IME: 9:30 CLOSE DAT	E: 8/27/2008 TIME: 0:05		OPEN	CLOSE
OBS. REF. HEIGHT & INNAGE	WATER INNAGE OBS. REF. HEIGHT	§ INNAGE ×WATER IN	AGE INSPECTOR:	C. BUSBY	C. BUSBY
26-0-3/4 23-7-0	0-0-0 11-2-1/4	8-8-1/2 0-0-0	WITNESS:		
			API @ 60°F		
			SOURCE		
			AMBIENT AIR TEMP	85.0	78.0
			TEMP OF TANK SHELL	87	86
			AVG TEMP (0.1%F)	87.0	87.0
§ MEASUREMENTS TAKEN IN ACC	ORDANCE WITH :	INNAGE: API MPMS 3.1A.9.2	AVG INNAGE	23-7-0	8-8-1/2
R FREE WATER DETERMINED IN A	CCORDANCE WITH :	API MPMS 3.1A.10.1	AVG WATER INNAGE	0-0-0	0-0-0
# TEMPERATURES TAKEN IN ACC	ORDANCE WITH :	API MPMS 7.6.4	VOLUME UNITS 🗸 BB	LS M3 OTHER	
^ VOLUME CALCULATED IN ACCO	RDANCE WITH :	ASTM D 1250-04	TABLE VOLUME **	7583.65	2766.11
PROD TEMP 87.2 x 0	.875 = 76.3000 PROD TEMP	87.1 x 0.875 = 76	2125 FREE WATER	0.00	0.00
(+) AIR TEMP 85.0 x 0	.125 = 10.6250 (+) AIR TEMP	78.0 x 0.125 = 9	7500 OBSERVED VOLUME	7583.65	2766.11
TANK SHELLTEMPERATURE:	= 87 TANK SHELL TE	MPERATURE =	86 TANK SHELL CORR.	1,00000	1.00000
ROOF CORRECTION INFO - STAND	PARD API:		OBSERVED VOLUME	7583.65	2766.11
CRITICAL ZONE RANGE FROM	TO ROOF	LEG HIGH LOV	ROOF CORRECTION	0.00	0.00
	OPEN	CLOSE	GROSS OBSERVED VOL.	7583.65	2766.11
AVG INN/ULL IN CRITICAL ZONE	YES NO	YES V NO	^VCF TABLE : (t 6B )	1.00000	1.00000
SIDEGAUGE/ATG	23-5-0 23-5-0	8-6-15 8-5-16	GROSS STANDARD VOL.	7583.65	2766.11
TEMPERATURES °F	# PROBE MERCURY	# PROBE MERC	IRY DIFFERENCE	481	7.54
* ACTION TAKEN :	✓ U 87.2 ✓ M 87.2 ✓ L 87.2	♥ U 87.1 ♥ M 87.1 ♥ L	87.1 CUSTODY TRANSFER SAM	MPLE:	
	□ M	w.	API @ 60°F		
	OTHER*	OTHER*	S & W % VOL.		
SIDETEMP/REMOTE	88.8	88.0	S & W VOLUME		
PROBE WAS CHECKED PRIOR TO	USE Y YES NO	NOT USED	NET STANDARD VOLUME		
SAMPLING	OU OM OL	OU OM OL	WCF TABLE : (t 8	1.00000	1.00000
* ACTION TAKEN :	□T □B <b>⊻</b> R	Ot Ob Or	GROSS STANDARD WT.	318513.300	116176.620
	OTHER*	OTHER	NET STANDARD WEIGHT		
AT ULLAGES :			WEIGHT UNITS LT	MT Z LBS	OTHER:

OP TEMP:

50 7/86C

CAL DATE: 10/6/2000 F Copyright SGS-OG&C 2001 - Rev April 2005

Ref TSh Temp: 60

"IS TABLE VOLUME IN W BBLS M3 COTHER:

F-10		Page 22 of 22
PORT / TERMINAL: Lake Charles, La / Citgo OFFICE LAKE CHARLES, LA TEL	(337) 625-1455	
VESSEL CCL 26 VOY# INSPECTOR(S): C. BUSBY SGS	8 FILE 112532	
CARGO Spent Caustic CLIENT CITGO/CES REF		
	Gas & Chemicals S	ervices Division.
SHORETANK # 182 REF HEIGHT: GAUGE UNITS FT - IN T FT MM	OTHER:	
OPEN DATE: 9/4/2008 TIME: 16:40 CLOSE DATE: 9/5/2008 TIME: 10:40	OPEN	CLOSE
	E ELLIOTT	MIKE ELLIOTT
27-9-5/8 25-3-7/8 0-0 14-6-1/2 12-1-0 0-0 <b>WITNESS</b> :		
API @ 60°F		
SOURCE		
AMBIENT AIR TEMP	82.0	83,0
TEMP OF TANK SHELL	88	87
AVG TEMP (0.1°F)	88.4	87.5
§ MEASUREMENTS TAKEN IN ACCORDANCE WITH : INNAGE: API MPMS 3.1A.9.2 AVG INNAGE	25-3-7/8	12-1-0
# FREE WATER DETERMINED IN ACCORDANCE WITH : API MPMS 3.1A.10.1 AVG WATER INNAGE		
# TEMPERATURES TAKEN IN ACCORDANCE WITH : API MPMS 7.6.4 VOLUME UNITS BBLS	M³ OTHER	h
^ VOLUME CALCULATED IN ACCORDANCE WITH : ASTM D 1250-04 TABLE VOLUME **	8124.61	3854.52
PROD TEMP 88.4 x 0.875 = 77.3500 PROD TEMP 87.5 x 0.875 = 76.5625 FREE WATER	0.00	0.00
(+) AIR TEMP 82.0 x 0.125 = 10.2500 (+) AIR TEMP 83.0 x 0.125 = 10.3750 OBSERVED VOLUME	8124.61	3854.52
TANK SHELLTEMPERATURE: = 88 TANK SHELL TEMPERATURE = 87 TANK SHELL CORR.	1.00000	1.00000
ROOF CORRECTION INFO - STANDARD API: OBSERVED VOLUME	8124.61	3854.52
CRITICAL ZONE RANGE FROM TO ROOF LEG HIGH LOW ROOF CORRECTION	0.00	0.00
OPEN CLOSE GROSS OBSERVED VOL.	8124.61	3854.52
AVG INN/ULL IN CRITICAL ZONE YES NO YES NO ^VCF TABLE : (t 6B )	1.00000	1.00000
SIDEGAUGE/ATG 25-1-5/16 25-1-3/16 11-10-2/16 11-10-1/4 GROSS STANDARD VOL.	8124.61	3854.52
TEMPERATURES °F # PROBE   MERCURY # PROBE   MERCURY   DIFFERENCE	427	0.09
* ACTION TAKEN: U W M 88.4 L U W M 87.5 L CUSTODY TRANSFER SAMPLE:		
M M API @ 60°F/ DE		
OTHER* OTHER* S&W % VOL.		
SIDETEMP/REMOTE S & W VOLUME		
PROBE WAS CHECKED PRIOR TO USE ♥ YES NO NOT USED NET STANDARD VOLUME		*****
SAMPLING U M L U M L WCFTABLE:(t8 )	1,00000	
ACTION TAKEN:	341233.620	
OTHER* OTHER* NET STANDARD WEIGHT	······································	
to the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se		L

OP TEMP :

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Ref TSh Temp: 60

CAL DATE :

M3 OTHER:

** IS TABLE VOLUME IN V BBLS

PORT/	TERMINAL:	Lake Charles,	La	/ Cito	jo o		OFFICE: LAK	E CHARLES,	LA	TEL: (337	') 625-1455		
VESSE	.: CCL 26			VOY	#:		INSPECTOR(S):	C. BUSBY		SGS FILE:	112532		
DATE:	9/4/2	008 CARGO:	Spent Causti	С			CLIENT: CITE	O/CES		REF: TBD	)		
CI	<b>2C</b>			VES	SSEL MEASUF	REMENT	SYSTEM	OPEN	CLOSE / F	RESTRICTED			
<u> </u>	10				ARRIVAL	<b>V</b> D	EPARTURE			Oil Gas 8	k Chemicals Se	ervices Division.	
		OADING	AT TRANS	HIPMENT	AT DISCHAR	GE	<u> </u>	O TANKS		AST TANKS		N/OTHER CARGO	)
UNITS		FT-IN	□ FT		MM 🗆	OTHER:			BBLS 🛄	U.S. GALS		OTHER:	
TANK #	REFERENCE HEIGHT	OBSERVED REFERENCE HEIGHT	¤ INNAGE	WATER INN	TEMPERATURES °F § PROBE	AVG. TEMP	CORRECTED MEASURE	TOTAL OBSERVED VOLUME	FREE WATER	GROSS OBSERVED VOLUME	^ V.C.F. (t 6B )	GROSS STANDARD VOLUME	Ĺ
1C	16-2-1/2	16-2-1/2	12-10-1/2	0-0	86.7	86.7	12-10-1/2	3065.04	0.00	3065.04	1.00000	3065.04	
2C	16-2-1/2	16-2-1/2	12-9-0	0-0	86.8	86.8	12-9-0	3511.24	0.00	3511.24	1.00000	3511.24	
3C	16-2-3/4	16-2-3/4	10-4-1/4	0-0	86.5	86.5	10-4-1/4	2553.68	0.00	2553.68	1.00000	2553.68	
													L
													L
													L
PROBE	WAS CHECKE	D PRIOR TO US	E 🗸 YE	s I N	O 🔲 NOT USI	ED	TOTALS	9129.96	0.00	9129.96		9129.96	
GAUGE	LOCATION	: 🗸 STAND	PIPE	G.H. on	Expansion Trunk		CORRECT	ED MEASURE	: w ≂ Wedge	corrected, t =	Trim corrected		·····
		OTHE		··········		***************************************	API@	60%F	····	S	OURCE:		
* GAU	GE POSITIO	N: C = Center	of tank F = Fo	rward of Ce	nter A = Aft of Cente	3r	S&W-VOL%	· :		S	DURCE:		
SAMPL	ES DRAWN	: 1-3 C				·····	S&W-VOL:			WCF TA	BLE:(t 8	)	
							NET STANDAR	D VOLUME					
BALLA	ST TANKS F	PERMANENT	YES	F NO	SEE F-15 BALLAST	TANKS)	GROSS STANI	DARD WEIGHT					
SEASU	ICTION SEA	L #'S :					NET STANDAR	RD WEIGHT					
DRAFT	: FWD (	P) 10-2	AFT (P	10-2	LIST:	[♀] (P) / (S	) TOTAL CALC.	VOL. DEPART	URE	1		9129,96	
	(	<b>S</b> ) 10-2	(S	) 10-2			REMARKS:						
SE	A CONDITIO	N: CALMINE	PORT				^ VOLUME CALC				ASTM D 125	0-04	
				MIKE ELLI	OTT		a LIQUID LEVEL (				API MPMS 1	7.2.5.2	
A Charles		SEL'S STAFF			INSPECTOR		ŞTEMPERATURE	DETERMINATIO	N IN ACCORD	ANCE WITH	API MPMS 1	7.2.5.3	
Copyrigh	t SGS-OG&C	2001 - Rev April 2	005		And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	of the second	- A handaning of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of t	**************************************	Services re	ndered according t	o published Gene	eral Terms and Con	litior

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PORT/	TERMINAL: L	ake Charles, La	1	/ Citgo			OFFICE: LA	KE CHARLES,	LA	TEL: (30	37) 625-1455	
VESSEL	: CCL 26			VOY#:			INSPECTOR(	s): C. BUSBY		SGS FILE	: 112532	
DATE:	8/26/20	08 <b>CARGO</b> : Sp	ent Caustic				CLIENT: CI	rgo/ces		REF:		
SC	iS .				OBQ DO NOT USE V.			SUREMENT IS NOT TAKEN	• .	Oil Gas 8	Chemicals Servic	es Division.
UNITS :	UNITS: Y FT-IN  FT  MM  OTHER				THER :						THER:	
TANK #	REFERENCE HEIGHT	OBSERVED REFERENC E HEIGHT	* OBSERVED INNAGE	FREE WATER INNAGE	NON-LIQUID INNAGE	AVG. TEMP	CORRECTED MEASURE	TOTAL OBSERVED VOLUME	(t 6B)	FREE WATER VOLUME	NON-LIQUID	LIQUID VOLUME
1C	16-2-1/2	16-2-1/2	0-1-0	0-0-0	0-0-0		0-1-0	18.02			0.00	18.02
2C	16-2-1/2	16-2-1/2	0-0-0	0-0-0	0-0-0		0-0-0	0.00		0.00	0.00	0.00
3C	16-2-3/4	16-2-3/4	0-0-0	0-0-0	0-0-0		0-0-0	0.00		0.00	0.00	0.00
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				······································								
	<u> </u>	+					<del> </del>			<del> </del>		
^ VC	LUME CALCUI	ATED IN ACCORD	ANCE WITH		<u> </u>	<u>L</u>	TOTALS	18.02		0.00	0.00	18.02
Onk	ehalf of our cli	Bbls of LIC	e to bring to your at	AL	our opinion :		1	Ullage; correcte	TANDPIPE	1,550	orrected, t = Trim on Expansion tru	
			ON-LIQUID MA				* GAUGE P			F = Forward o	of Center A = Aft of	Center
			extent we are awar our client(s) and si				OBQ SAN	IPLED []	YES 🗸	NO IF NO	REASON	
In c	ise you are una	ble to do so please	e indicate your reas ent(s) of the above	ons below.							***************************************	
com	pensation for ti	ne undelivered amo	ount.		•		OBQ TES	TED	YES V	NO IF NO	REASON	
		pards to flowability sponsibility for SG	and similiar adviso iS.	ry services exp	press personal			······································	······································	······································		· · · · · · · · · · · · · · · · · · ·

DOIS OF NON-LIGIDID											
	······································			* GAUGE POSITION: C = Center of tank F = Forward of Center A = Aft of Center							
remains on board your vessel. To the extent we are relationships, this material belongs to our client(s) a In case you are unable to do so please indicate your	OBQ SAM	PLED		YES	Ø	NO	IF NO REASON				
in any event, we have to advise our client(s) of the a compensation for the undelivered amount. Statements with regards to flowability and similiar a	bove and reserve his right to seek	OBQ TESTE			YES	V	NO	IF NO REASON			
opinions without responsibility for SGS.					VE0	1725					
		ROB SAM	IPLED		YES	Y	NO	IF NO REASON			
								<u></u>			
		DRAFT:	FWD (P)	2-6		A	FT (P)	) 2-6	LIST :	⁹ (P) / (S)	
	C. BUSBY		(S)	2-6			<b>(S</b> )	2-6			
VESSEL'S STAFF	INSPECTOR	SEA CO	NDITION:	CALM	IN PO	RT					
right SCS_OC&C 1997 - Pay April 2005			****		Carrie	AC 1000	larad r	rearding to publishe	d Connect Toes	ond Canditions	

PORT / TERMIN				7				
. ()	IAL: Lake Charles			OFFICE: LAKE		TEL: (	(337) 625-14	155
VESSEL: CCL 2		VOY #:		INSPECTOR(S):				
DATE: 8/26/200				SGS FILE: 1125				
CARGO: Spent	Caustic		· · · · · · · · · · · · · · · · · · ·	CLIENT: CITGO	CES	REF:		
SGS		INFO	DRMATION FOF	R CLEANLINESS		& Chemic	als Services	Division.
AT LOADING		ANSFER	AT DISCHARGE		SHORE		VESSEL	
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<del></del>	ESSEL'S STAFF	BAR	IGE OPERATOR	<u>✓ TERMINAL</u>	REPRESENTATIV	E L	CHARTER	ER
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PLEASE PRIN	I MANE(3)							
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TANK #:		1-3 C						
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COATING NAM		N/A ACCEPTABLI						
TANK #:		ACCEPTABLE						
MATERIAL								
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F-9	Page Air Air Air
PORT / TERMINAL: Lake Charles, La / Citgo	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 26 VOY #:	INSPECTOR(S): C. BUSBY
DATE: 8/26/2008	SGS FILE: 112532
CARGO: Spent Caustic	CLIENT: CITGO/CES REF:
SGS TANK CLEANLI	NESS INSPECTION Oil Gas & Chemicals Services Division.
✓ AT LOADING □ AT TRANSFER □ AT DISCHARGE	AS INSPECTION ONLY AS PRE-INSPECTION  WITH CUSTODY TRANSFER
USE A SEPARATE F	ORM F-9 PER INSPECTION
THIS IS THE FIRST SECOND	THIRDTH INSPECTION
TANK(S): 1-3 C	
BASED ON SUBMITTED INFORMATION (SEE LIRIS F	F-7) AND :
✓ VISUAL CHECK FOR RESIDUES FROM DECK LI	·
PHYSICAL ENTRY (TANK SAFE ATMOSPHI	ERE STATEMENT BELOW MUST BE COMPLETED PRIOR TO ENTRY)
AND USUAL INSPECTION	
AND WALLWASHING (ANALY)	TICAL REPORT ON FILE)
WERE ACCEPTED FOR CLEANLINESS TO CARRY A CA  WERE REJECTED FOR CLEANLINESS TO CARRY A CA	ARGO OF SPENT CAUSTIC
REASON:	
☐ SHIP'S STAFF AND/OR	CLIENT NOTIFIED ON 8/26/2008 BY C. BUSBY
INSPECTION COMPLETED AT 10:15 HRS ON THE	8/26/2008
TANK(S) SUBJECT TO A FINAL INSPECTION AT LOADING BE	RTH IN CASE OF PRE-INSPECTION
SIGNATURES :	C. BUSBY
FOR VESSEL	FOR TERMINAL INSPECTOR
* IS THIS TANK ACCEPTANCE BASED SOLELY ON SUBMITTED IF YES; ISSUE N.O.A.D. AND INFORM YOUR SGS SUPER	INFORMATION EVALUATION ?
(ac)	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
TANK SAFE ATN	MOSPHERE STATEMENT
he undersigned certifies that those tank(s) indicated on lin	e 13 of this page have been cleaned and gas freed as
eported on the reverse side of the SGS F-7 and that the tan	
ne undersigned hereby grants permission for SGS personr	
Tank Safe Atmosphere Statement signed	hours on
SIGNATURES :	·
FOR VESSEL	FOR TERMINAL

NOTE: DO NOT ENTER THE TANK(S) if this TANK SAFE ATMOSPHERE STATEMENT is not signed and contact your supervisor for further instructions.

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PRINT NAME (S):

FOLLOWING Q	UANTITY(S) OF	SPENT	CAUSTI	IC								.,,	
Γ		)		LT 🗍	МТ		POUNDS	7	OTHER	(SPECIFY)	9-61	DRAFT	
OR:		)		BBLS 🗌	М³		OTHER	AT		STD. TEMP	V	OBSERV	. TEMP
THIS QUANTITY  MINIMUN		, m. men.	MIN/M/	AX 🗆 F	PLUS OF	R MINUS	<b>,</b>	<b>(</b>	ОТНЕ	ER (SPECIF	Y) AF	PROXII	MATELY
*PLUS OR MIN	US	%" IS TH	E OPTI	ON OF		VES	SEL		TERM	INAL	Target State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of th	CLIE	NT
PLUS OR MINI	US	%" IS OP	TED FO	OR BY	Ĺ	VES	SEL		TERM	INAL	Ĺ.	CLIE	NT
THE ABOV	/E QUANTITY(S		- WILL		RED / D	ISCHAR	SHIP'S GED FROM TANK(S) 1-	TANK(S)		2			······································
VESSEL'S CO-N			BLE TO	OUR PRIN		ARATIO	YE N		UMETRI	NO C BLENDIN	i <b>G</b>		
SIGNATURES)	VESSE	L'S STAFF	:				DATE :		T	IME:			
TER	MINAL REPRES	SENTATIVE	:				DATE:		T	IME :			
	11	SPECTOR	: C. BI	USBY			DATE: 8/20	6/2008	Т	IME: 9:45			
ARE STOP GAU	GES:				BY INS		R / VESSEL		YES YES	✓ NO			
				- WITNE	SSED E	3Y INSP	ECTOR		YES	✓ NO			······································
REMARKS:													
						***************************************				····		.,	
			·····	·····									
		****			<del></del>								

(1) WE CALCULATE AND CHECK ON STOP GAUGE MEASUREMENTS WHEN REQUIRED BY OUR CLIENTS; HOWEVER, VESSEL AND

TERMINAL EMPLOYEES ARE SOLELY RESPONSIBLE FOR OBSERVATION OF STOP GAUGES, VALVE SETTING AND PUMPING INTO AND OUT

(2) OUR STAFF IS AVAILABLE TO ADVISE IN BLENDING OPERATIONS. VOLUMETRIC OR WEIGHT COMPOSITES CAN BE PREPARED FROM COMPONENTS AND TESTED IN OUR LABORATORIES. HOWEVER, DUE TO THE INHERENT DIFFICULTY IN ACHIEVING A HOMOGENEOUS

STABLE BLEND IN TANKS AND SAMPLES, SGS CANNOT ACCEPT ANY RESPONSIBILITY. Copyright SGS-OG&C 1995 - Rev Oct 2003

OF THE DESIGNATED TANKS.

NOTE

Services rendered according to published General Terms and Conditions

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To: JENNY RUST SGS REF NO: 112916 CES Environmental

## **SUMMARY OF FINDINGS**

### **OPERATION**

DISCHARGE FROM THE "CCL 26" TO SHORE TANK(S) 607 AT KMTEX, PORT ARTHUR, TX ON 9/9/2008, OF A CARGO DESCRIBED AS SULFIDIC CAUSTIC

## **QUANTITY Discharged on 9/9/08**

		DELIVERED (1)	RECEIVED (2)	DIFFERENCE	PERCENT
GSV	BARRELS	8,758.68	8,847.70	-89.02	1.01
	U.S. GALLONS	367,864.56	371,603.40	-3,738.84	1.01

- Delivered quantity based on barge figures
   Received quantity based on shore tank 607
   Arrival: 9,107.60 GSV BBLS
- 4. ROB: 348.92 GSV BBLS

### TIME LOG

I IIWIE EO		
9/8/2008	16:00	BARGE ON SITE
	18:45	INSPECTOR NOTIFIED
	19:40	INSPECTOR ARRIVED
	20:00	INSPECTOR ON BOARD
	20:05	COMMENCE BARGE PRE-INSPECTION
	20:20	COMPLETE BARGE PRE-INSPECTION
	20:40	CARGO HOSE CONNECTED
	20:55	SHORETANK # 607 GAUGED OPEN
	21:20	COMMENCE DISCHARGE
9/9/2008	01:30	COMPLETE DISCHARGE
	02:35	INSPECTOR NOTIFIED
	03:00	INSPECTOR ARRIVED
	03:10	COMMENCE BARGE FINAL INSPECTION
	03:20	COMPLETE BARGE FINAL INSPECTION
	03:50	SHORETANK # 607 GAUGED CLOSED
	04:30	INSPECTOR DEPARTED

Darren W. Le Blanc Date: 9/10/2008

Shore volume calculated in accordance with: Vessel volume calculated in accordance with: TOV TOV

SGS North America Inc.

Oil, Gas & Chemicals Services

t(409-727-1035) www.sgs.com

Member of the SGS Group (Société Générale de Surveillance)



Definition of Terms as per MPMS Chapter 1.

Procedures as per applicable MPMS Chapter 3.1a, 7, 8.1 or 8.2, 12.1 or 12.2, 17.1, 17.2, 17.4.

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# Inspection Report (LOADING)

Subject: CCL 26

Date: Location: Lake Charles, La / CITGO

6/9/2008

Our ref.: 101266

Client ref.: TBD

Product: SULFIDIC CAUSTIC

Client: CES Environmental Services

**Summary of Figures** 

Bbls @ 60°F Gallons @ 60°F

## **Shore Tank Active during Loading**

### Vessel's Measurements

Vessel's figures before loading (OBQ) Free Water	0.00	
Vessel's figures before loading (OBQ) Liquid	18.02	
Vessel's figures before loading (OBQ) Non Liquid	0.00	
Vessel's figures before loading (OBQ) Total	18.02	756.84
Vessel's figures TCV on board after loading	8,504.19	357,175.98
Vessel's figures TCV loaded	8,486.17	35,6419.14
Vessel's figures Free Water loaded	0.00	0.00
Vessel's figures GSV loaded	8,486.17	356,419.14

Cargo stowage Cargo tanks no(s):

CCL 26[1C, 2C, 3C]

## **Samples**

SHORE TANK - 2X1 QUART RUNNING

BARGE - 2X1 QUART RUNNING PER CARGO TANK.

## **Time Log**

2100	INSPECTOR NOTIFIED
2100	VESSEL ARRIVED
2110	VESSEL DOCKED
2130	ARM ON
2200	INSPECTOR ARRIVED
2215	COMMENCED PRE LOAD DECK INSPECTION
2230	COMPLETED PRE LOAD DECK INSPECTION
2355	STARTED LOADING CCL 26
2200	FINISHED LOADING CCL 26
2230	COMMENCED POST LOAD DECK INSPECTION
2245	ARM OFF
2300	COMPLETED POST LOAD DECK INSPECTION
2305	COMMENCED FINAL CALCULATIONS
2325	COMPLETED FINAL CALCULATIONS
2330	INSPECTOR DEPARTED
	2100 2110 2130 2200 2215 2230 2355 2200 2230 2245 2300 2305 2325

SGS North America Inc.

Oil, Gas & Chemicals Services

4701 E. NAPOLEON SULPHUR, LA 70663 t((337) 625-1455) f((337) 625-1721) www.sgs.com

Member of the SGS Group (Société Générale de Surveillance)



Brett Daigle for SGS Oil, Gas & Chemicals Services 6/10/2008

Shore volume calculated in accordance with: Vessel volume calculated in accordance with:

ASTM D 1250-04

Procedures as per applicable MPMS Chapter 3.1a, 7, 8.1 or 8.2, 12.1 or 12.2, 17.1, 17.2, 17.4.

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PORT / TERMINAL: Lake Charle	······································		OFFICE: LAKE	····	TEL: (337)	325-1455
VESSEL: CCL 26	VOY #:		INSPECTOR(S):	~		
DATE: 6/8/2008 CARGO: SULFIDIC CAUSTIC			SGS FILE: 101		L REF:	
CCC		COCE ALL		······································	3 Marie 7 S Table S T	
<u> </u>	VI	ESSEL QUA	NTITY SUM	WAHY OIL	Gas & Chemicals Se	rvices Division.
☐ AT LOADING ☐ AT TR	ANSFER Z AT	DISCHARGE	CRUDEO	IL.	<b>☑</b> PROD	UCTS
API @ 60°F:		.D. 60°F/60°F		Densi	ty Lbs/Gal @	
S&W % VOL:						
SOURCE OF ANALYTICAL DATA	<b>!</b> :	.,				
					TAPPINI PT	
		LUME	(t 8 )	2017175	WEIGHT	1 11 11 11 11 11 11 11 11 11 11 11 11 1
	BBLS	U.S. GALS		POUNDS	LONG TONS	METRIC TONS (AIR)
VESSEL'S QUANTITIES	V.E.F. CO	RRECTED:	✓ YES	NO	VEF:	
TOTAL CALCULATED VOL	8504.19	357175.98	3			
FREE WATER	0.00	0.00				
GROSS STANDARD VOLUME	8504.19	357175.98	B			
S & W VOLUME						
(NET) STANDARD VOLUME		1				
<b>☑</b> OBQ			ROB			
LIQUID MATERIAL	18.02	756.84			T	
NON-LIQUID MATERIAL	0.00	0.00				
FREE WATER	0.00	0.00				
TOTAL	18.02	756.84				
	10.04	1 ,50.04	<u>L</u>			<u></u>
LOADED QUANTIT	IES		DISCHARGED QU	ANTITIES		
FOTAL CALCULATED VOL	8486.17	356419.14				
FREE WATER	0.00	0.00				
GROSS STANDARD VOLUME	8486.17	356419.14				
S & W VOLUME		<del>                                     </del>			<u> </u>	
NET) STANDARD VOLUME	***************************************	<del>                                     </del>				
ARE SLOPS INCLUDED IN CALC	ULATIONS	YES	NO	NO	SLOPS ON BOARD	<u> </u>
STOLLAGE OF SECOND						
STOWAGE O/B VESSEL:						
STOWAGE O/B VESSEL:						

r-3A		변경였는 - Fill Of	13.5
PORT / TERMINAL: Lake (	Charles, La / Citgo	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455	
VESSEL: CCL 26	VOY #:	INSPECTOR(S): mike elliott	
DATE: 6/8/2008		SGS FILE: 101266	***************************************
CARGO: SULFIDIC CAUS	STIC	CLIENT: CES ENVIROMENTAL REF:	

909		,	VOTAGE AN	ALISIS NEF	Oil Gas	& Chemicals Ser	vices Division.
LOADING	□ v-v	TRANSFER	DISCHARGE	SUMMARY		Type of Voyage Simple	C/P DATE
Load Port/Terminal/Ber	th	ARRIVED	SAILED	Discharge Port/T	erminal/Berth	ARRIVED	SAILED
Lake Charles / CITGO	)	6/8/2008	6/10/2008				
VOLUME UNITS		SUPPLIER	RECEIVER	VCF SHORE LOAD	VCF SHORE DISCH	VCF VESSEL LOAD	/CF VESSEL DISCI
✓ BBLS ☐ GALS ☐	M³ □ L	CITGO	CES				
DESCRIPTION	API	тсу	FW	GSV	S&W	NSV	Reference
I. COMPARISON OF S	HORE QUA	NTITIES IN CUS	TODY TRANSFER		1		
Bill of Lading 1.							(1)
Outturn 2.							(2)
Diff. 3.							(3)=(2) · (1)
Diff. % 4.							(4) = (3) / (1) x 100
Recalc. B/L 3.	(a)		Recalculate if	B/L and O/T use d	lifferent tables.		(5) (a) Vol. Diff.
II. V	JANTITIES .	AT ( ) LOAE	PORT(S)				
Vesse ailing	A	8504.19	0.00	8504.19	LIQUID	NON-LIQUID	(A)
OBQ (AII)	В.	18.02	0.00	18.02	18.02	0.00	(B)
Loaded	C.	8486.17	0.00	8486.17			(C)=(A) - (B)
Difference	<b>⊋</b> D.	8486.17					(D)=(C)-[(1) or (5)]
Difference	∍% E.	0.00					(E)=(D)/[(1)or(5)]x100
Load Vessel Ratio	F.	0.0000					(F)=(C)/[(1)ar(5)]
Load VEF	G.						(G)
Theoretical Shore	Н.						(H)=(C) / (G)
Theoretical Shore Diff.	l.						(l)=(H) - [(1) or (5)]
Theoretical Shore Diff.	% J.						(J)=(I)/[(1) or (5)]x100
II. VESSEL/SHORE QU	IANTITIES /	AT( ) DISC	HARGE PORT(S)				
Vessel Arrival	K.				LIQUID	NON-LIQUID	(K)
ROB (All)	L.						L)
Discharge	d M.						(M) = (K) - (L)
Difference	N.						(N) = (2) - (M)
Difference	· % O.						(O) = (N) / (2) x 100
Discharge Vessel Ratio	P.						(P) = (M) / (2)
Discharge VEF	Q.						(Q)
Theoretical Shore	R.						(R) = (M) / (Q)
Theoretical Shore Diff.	S.						(S) = (2) - (R)
Theoretical Shore Diff.	% Т.						$(T) = (S) / (2) \times 100$
III. VESSEL/'S COMPAR	RISON OF L	OADING AND DI	SCHARGE PORT(S	) VCF TABLE M	UST BE CONSIST	ENT	
Fransit Difference	U.						(U) = (K) - (A)
Difference	% V.				LIQUID	NON-LIQUID	(V) = (U) / (A) ( T00
DBQ/ROB Difference	W.						W) = (L) - (8)
ADJ TCV DIFF :	(Quar	TCV Difference (3)	- OBQ (B) + ROB (L)	[S S&W at Load Port	&W(1)/GSV(1)]X100 t:	[S S&W at Disch Po	6&W(2)/GSV(2)(X 60 rt :
Comments :							
Prepared by :		Title :		Company:		Date Completed :	
-1							

PORT / TERMINAL: Lake Charles, La / Citgo	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 26 VOY #:	INSPECTOR(S): mike elliott
DATE: 6/8/2008	SGS FILE: 101266
CARGO: SULFIDIC CAUSTIC	CLIENT: CES ENVIROMENTAL REF:

# TIME LOG

9	<u>6</u> 0			111/1			Oil	Gas & C	hemica	ls Servi	ces Divis	ion.
Constant de	AT LOAD	ING		AT TRANSFEI	,	AT DISCHARGE						
		AR 2008 / MONTH JA	N FEB	MAR API	MAY	NUL	JUL	AUG	SEP	ост	NOV	DEC
Date 6/8	21:00	INSPECTOR NOTIFIED			***************************************				***************************************			
6/8	21:00	VESSEL ARRIVED										
		VESSEL ANAIVED  VESSEL DOCKED				.,						**************************************
6/8	21:10								····			·~··
6/8	21:30	ARM ON							······	,,, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		<del></del>
6/8	22:00	INSPECTOR ARRIVED  COMMENCED PRE LOAD	DEOK IN	יחבטבוטאו			,					
6/8 6/8	22:15	COMPLETED PRE LOAD						····	<del>-,,,</del>			
6/8	23:55	STARTED LOADING CCL		PECHON			***************************************	·····	***************************************		,	
	22:00	FINISHED LOADING CCL							<del></del>			
6/9		COMMENCED POST LOA		COPOTION								
6/9	22:30		D DECK II	VSPECTION			<del></del>					
6/9	22:45	ARM OFF  COMPLETED POST LOAD	OCOK IN	ODEOTION								
6/9	23:00											·
6/9	23:05	COMMENCED FINAL CAL							***************************************			···
6/9 6/9	23:25	COMPLETED FINAL CALC INSPECTOR DEPARTED	OLATION	5								
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F-15											P.	age this of t	
PORT/	TERMINAL:	Lake Charles	, La	/ Cito	go		OFFICE: LAK	CE CHARLES,	LA	TEL: (337	) 625-1455		
VESSEL	:: CCL 26			VOY	#:		INSPECTOR(S)	: mike elliot		SGS FILE:	101266		
DATE:	6/8/2	008 CARGO:	SULFIDIC C	AUSTIC			CLIENT: CES	ENVIROMEN	VTAL	REF:			
CI	<b>'C</b>			VES	SSEL MEASUF	REMEN'	T SYSTEM	<b>✓</b> OPEN	CLOSE / F	RESTRICTED			
<u>or</u>	19				ARRIVAL	<u> </u>	DEPARTURE			Oil Gas &	Chemicals S	ervices Division.	
	✓ AT L	OADING	AT TRANS	SHIPMENT	AT DISCHAR	GE	✓ CAR	GO TANKS	BALL	AST TANKS	NO	N/OTHER CARG	0
UNITS :		FT-IN	FT		MM U	OTHER:			BBLS	U.S. GALS	M ₃	OTHER:	
TANK#		OBSERVED REFERENCE HEIGHT	» INNAGE	WATER	TEMPERATURES °F S PROBE	AVG. TEMP	CORRECTED MEASURE	TOTAL OBSERVED VOLUME	FREE WATER	GROSS OBSERVED VOLUME	^ V.C.F. (t 6B )	GROSS STANDARD VOLUME	*
1C	16-2-1/2	16-2-1/2	12-6-3/4	0-0	90.5	90.5	12-6-3/4	2998.47	0.00	2998.47	1.00000	2998.47	
2C	16-2-1/2	16-2-1/2	10-9-7/8	0-0	90.4	90.4	10-9-7/8	2671.96	0.00	2671.96	1.00000	2671.96	
3C	16-2 3/4	16-2 3/4	10-3-1/2	0-0	90.4	90.4	10-3-1/2	2833.76	0.00	2833.76	1.00000	2833.76	$ar{+}$
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PROBE	NAS CHECKE	D PRIOR TO US	E Y Y	ES N	IO NOT USI	ED ED	TOTALS	8504.19	0.00	8504.19		8504.19	<u> </u>
GAUGE	LOCATION	i: 🗸 Stani	OPIPE	G.H. on	Expansion Trunk		CORRECT	TED MEASURE	: w = Wedge	corrected, t = `	Trim corrected		
		OTHE					API @	60%E		S	OURCE :		
, GAU	GE POSITIO	N: C = Center	of tank F = F	orward of Ce	nter A = Aft of Cente	er	S&W-VOL9	%:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	S	OURCE :		
SAMPL	ES DRAWN	: 2x1 QUAR	T RUNNING	EACH TANK	ζ		S&W-VOL:			WCF TA	BLE:(t 8	<u>)</u>	
	~ ~ ~ A & & S & A & A				/APP P 42 PALL 407	~ * * * * * * * * * * * * * * * * * * *	NET STANDA		· · · · · · · · · · · · · · · · · · ·				
	·····	PERMANENT	YES	IF NO	(SEE F-15 BALLAST	TANKS)		DARD WEIGH	I			8504.19	
DRAFT	CTION SEA	L#'S: (P) 9-6	ΔET /E	P) 9-6	LIST:	g (D) / (C	NET STANDA		TIRE				
Dipart		(S) 9-6	·	6) 9-6	5.147 i -	- (-)/(3	REMARKS:	TOWN MET MIT	1				·
SE/		N: CALMINI	<del></del>			····	VOLUME CALC	CULATED IN ACC	ORDANCE WIT	Н	ASTM D 125	0-04	
	····	·	· · · · · · · · · · · · · · · · · · ·	MIKE ELLIC	OTT		¤ LIQUID LEVEL	GAUGES IN ACC	ORDANCE WIT	Н	API MPMS 1	***************************************	
	VES	SEL'S STAFF			INSPECTOR		<b>\$TEMPERATURE</b>	DETERMINATIO	N IN ACCORD	ANCE WITH	API MPMS 1	7253	

VESSEL'S STAFF
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API MPMS 17.2.5.3

INSPECTOR

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TERMINAL: L	ake Charles, I	La		/ Citgo			OFFICE: LA	KE CHARLES, L	_A	<b>TEL:</b> (3:	37) 625-1455	
.: CCL 26				VOY#:			INSPECTOR(S	s): mike elliott		SGS FILI	E: 101266	
6/8/20	08 <b>CARGO</b> : (	SULF	IDIC CAUST	TC TC			CLIENT: CE	S ENVIROMENT	TAL	REF:		
70				7	OBQ		ROB MEAS	SUREMENT				
19										Oil Gas 8	& Chemicals Servic	es Division.
<b>Y</b> F	T-IN		FT	MM		THER:		UNITS : 🗹 B	BLS	U.S. GALS		THER:
REFERENCE HEIGHT	OBSERVED REFERENC E HEIGHT	* (	OBSERVED INNAGE	FREE WATER INNAGE	NON-LIQUID INNAGE	AVG. TEMP	CORRECTED MEASURE	TOTAL OBSERVED VOLUME	^ V.C.F. (t 6B )	FREE WATER VOLUME	NON-LIQUID	LIQUID VOLUME
16-2-1/2	16-2-1/2		0-0-1	0-0	0-0			18.02		0.00	0.00	18.02
16-2-1/2	16-2-1/2		0-0-0	0-0	0-0			0.00		0.00	0.00	0.00
16-2 3/4	16-2 3/4		0-0-0	0-0	0-0			0.00		0.00	0.00	0.00
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LUME CALCUL	ATED IN ACCO	RDANC	E WITH			<u></u>	TOTALS	18.02		0.00	0.00	18.02
ehalf of our clie	nt(s) we would l	ike to l	bring to your at	tention that in o	our opinion :		d = dip, u =	Ullage; corrected	 i measure.	w = Wedge c	orrected, t = Trim	corrected
	Bbls of L	IQUI	D MATERIA	AL.				=				
											*	
					_		* GAUGE PO			F = Forward c	of Center A = Aft of	Center
							OBQ SAM	PLED	YES	NO IF NO	REASON	
					right to eack							
pensation for th	e undelivered ar	mount.	•		•		OBQ TEST	rED	YES	NO IF NO	REASON	
			similiar adviso	ry services exp	ress personal							***************************************
			**************************************			·····	ROB SAM	PLED	YES []	NO IF NO	REASON	
**************************************	***************************************		***************************************		**************************************				weenst			
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	***************************************			MIKI	E ELLIOTT		<del>                                     </del>					- (1)/(0)
OWE VESSE	L'S STAFF					<del></del>	SEA CO		IN PORT	\-/ <del>- / - / - / - / - / - / - / - / - / </del>		
	REFERENCE HEIGHT  16-2-1/2  16-2-1/2  16-2-3/4  SLUME CALCUL ehalf of our clies without resigner without resigners without resigners without resigners.	FT-IN  REFERENCE HEIGHT  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  16-2-1/2  1	REFERENCE   OBSERVED   *   PREFERENCE   HEIGHT   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1/2   16-2-1	REFERENCE DBSERVED NNAGE HEIGHT REFERENCE E HEIGHT  16-2-1/2 16-2-1/2 0-0-0  16-2-3/4 16-2-3/4 0-0-0  16-2-3/4 16-2-3/4 0-0-0  16-2-3/4 16-2-3/4 0-0-0  Bbls of LIQUID MATERIA  Bbls of NON-LIQUID MA  Sains on board your vessel. To the extent we are aware ionships, this material belongs to our client(s) and strike you are unable to do so please indicate your reasons ye event, we have to advise our client(s) of the above any event, we have to advise our client(s) of the above any event, we have to advise our client(s) of the above any event, we have to advise our client(s) of the above any event, we have to advise our client(s) of the above any event, we have to advise our client(s) of the above any event, we have to advise our client(s) of the above any event, we have to advise our client(s) of the above any event, we have to advise our client(s) of the above any event, we have to advise our client(s) of the above any event, we have to advise our client(s) of the above any event, we have to advise our client(s) of the above any event, we have to advise our client(s) of the above any event, we have to advise our client(s) of the above any event, we have to advise our client(s) of the above any event, we have to advise our client(s) of the above any event, we have to advise our client(s) of the above any event, we have to advise our client(s) of the above any event, we have to advise our client(s) of the above any event, we have to advise our client(s) of the above any event.	SECCL 26 SULFIDIC CAUSTIC  SOLFIN FT MM  REFERENCE OBSERVED INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAG	REFERENCE   OBSERVED   FREE   NON-LIQUID	6/8/2008 CARGO: SULFIDIC CAUSTIC    OBQ	REFERENCE   OBSERVED   FREE   NON-LIQUID   AVG.   CORRECTED   MEASURE      16-2-1/2   16-2-1/2   0-0-1   0-0   0-0   0-0      16-2-3/4   16-2-3/4   0-0-0   0-0   0-0   0-0      16-2-3/4   16-2-3/4   0-0-0   0-0   0-0   0-0      16-3-1/2   16-2-1/2   0-0-1   0-0   0-0   0-0      16-3-1/2   16-2-1/2   0-0-1   0-0   0-0   0-0      16-3-1/2   16-2-1/2   0-0-1   0-0   0-0   0-0      16-3-1/2   16-3-1/2   0-0-1   0-0   0-0   0-0      16-3-1/2   16-3-1/2   0-0-1   0-0   0-0   0-0      16-3-1/2   16-3-1/2   0-0-1   0-0   0-0   0-0      16-3-1/2   16-3-1/2   0-0-1   0-0   0-0   0-0      16-3-1/2   16-3-1/2   0-0-1   0-0   0-0   0-0      16-3-1/2   16-3-1/2   0-0-1   0-0   0-0   0-0      16-3-1/2   16-3-1/2   0-0-1   0-0   0-0   0-0      16-3-1/2   16-3-1/2   0-0-1   0-0   0-0   0-0      16-3-1/2   16-3-1/2   0-0-1   0-0   0-0   0-0      16-3-1/2   16-3-1/2   0-0-1   0-0   0-0   0-0      16-3-1/2   16-3-1/2   0-0-1   0-0   0-0   0-0      16-3-1/2   16-3-1/2   0-0-1   0-0   0-0   0-0      16-3-1/2   16-3-1/2   0-0-1   0-0   0-0   0-0      16-3-1/2   16-3-1/2   0-0-1   0-0   0-0      16-3-1/2   16-3-1/2   0-0-1   0-0   0-0      16-3-1/2   16-3-1/2   0-0-1   0-0   0-0      16-3-1/2   16-3-1/2   0-0-1   0-0   0-0      16-3-1/2   16-3-1/2   0-0-1   0-0   0-0      16-3-1/2   16-3-1/2   0-0-1   0-0      16-3-1/2   16-3-1/2   0-0-1   0-0      16-3-1/2   16-3-1/2   0-0-1   0-0      16-3-1/2   16-3-1/2   0-0-1   0-0      16-3-1/2   16-3-1/2   0-0-1   0-0      16-3-1/2   16-3-1/2   0-0-1   0-0      16-3-1/2   16-3-1/2   0-0-1   0-0      16-3-1/2   16-3-1/2   0-0-1   0-0      16-3-1/2   16-3-1/2   0-0-1   0-0      16-3-1/2   16-3-1/2   0-0-1   0-0      16-3-1/2   16-3-1/2   0-0-1   0-0      16-3-1/2   16-3-1/2   0-0-1   0-0      16-3-1/2   16-3-1/2   0-0-1   0-0      16-3-1/2   16-3-1/2   0-0-1   0-0      16-3-1/2   16-3-1/2   0-0-1   0-0      16-3-1/2   16-3-1/2   0-0-1   0-0      16-3-1/2   16-3-1/2   16-3-1/2   16-3-1/2      16-3-1/2   16-3-1/2   16-3-1/2      16-3-1/2   16-3-1/2   16-3-1/2      16-3-1/2   16-3-1/2   16-3-1/2	ROB MEASUREMENT NOTE: DO NOT USE V.C.F. IF TEMPERATURE IS NOT TAKEN NOTE: DO NOT USE V.C.F. IF TEMPERATURE IS NOT TAKEN NOTE: DO NOT USE V.C.F. IF TEMPERATURE IS NOT TAKEN NOTE: DO NOT USE V.C.F. IF TEMPERATURE IS NOT TAKEN NOTE: DO NOT USE V.C.F. IF TEMPERATURE IS NOT TAKEN NOTE: DO NOT USE V.C.F. IF TEMPERATURE IS NOT TAKEN NOTE: DO NOT USE V.C.F. IF TEMPERATURE IS NOT TAKEN NOTE: DO NOT USE V.C.F. IF TEMPERATURE IS NOT TAKEN NOTE: DO NOT USE V.C.F. IF TEMPERATURE IS NOT TAKEN NOTE: DO NOT USE V.C.F. IF TEMPERATURE IS NOT TAKEN NOTE: DO NOT USE V.C.F. IF TEMPERATURE IS NOT TAKEN NOTE: DO NOT USE V.C.F. IF TEMPERATURE IS NOT TAKEN NOTE: DO NOT USE V.C.F. IF TEMPERATURE IS NOT TAKEN NOTE: DO NOT USE V.C.F. IF TEMPERATURE IS NOT TAKEN NOTE: DO NOT USE V.C.F. IF TEMPERATURE IS NOT TAKEN NOTE: DO NOT USE V.C.F. IF TEMPERATURE IS NOT TAKEN NOTE: DO NOT USE V.C.F. IF TEMPERATURE IS NOT TAKEN NOTE: DO NOT USE V.C.F. IF TEMPERATURE IS NOT TAKEN NOTE: DO NOT USE V.C.F. IF TEMPERATURE IS NOT TAKEN NOTE: DO NOT USE V.C.F. 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IF TEMPERATURE IS NOT TAKEN NO	ROBALCULATED IN ACCORDANCE WITH  Bis or to board your wassel. To the extent we are aware of contractual conshipts, this material belongs to our client(s) and should be pumped ashore. serve you are uniforms without responsibility for SGS.  ROBALCULATED IN ACCORDANCE WITH  MIKE ELLIOTT  MIKE CALCULATED IN ACCORDANCE WITH  MIKE ELLIOTT  MIKE CALCULATED IN ACCORDANCE WITH  INSPECTOR(S): mike elliott  CLIENT: CES ENVIROMENTAL  CLIENT: CES ENVIROMENTAL  CLIENT: CES ENVIROMENTAL  CLIENT: CES ENVIROMENTAL  CLIENT: CES ENVIROMENTAL  ROBA MEASURE MENTAL  INSTECT BROW TO THER:  UNITS: M BBLS  A V.C.F. IF TEMPERATURE IS NOT TAKEN  WATER INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE INNAGE	ACCL 26 VOY #: INSPECTOR(S): mike elliott SGS FILL  (6/8/2008 CARGO: SULFIDIC CAUSTIC CLIENT: CES ENVIROMENTAL REF:  NOTE: DO NOT USE V.C.F. IF TEMPERATURE IS NOT TAKEN  OII Gas #  FIT	REFERENCE OBSERVED   O-0-0   O-0   ngir Sus-OG&C 1997 - Hev April 2

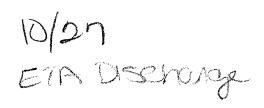
EPAHO081001876

F-7							Page	1 of 1
PORT / TERMINAL: Lake Char	les, La / Citgo		OFFICE: LA	KE CHARLES	S, LA	TEL:	(337) 625-1	455
VESSEL: CCL 26	VOY #:		INSPECTOR(	S): mike ellic	tt			
DATE: 6/8/2008			SGS FILE:	101266				
CARGO: SULFIDIC CAUSTIC	,		CLIENT: CE	S ENVIROME	NTAL	REF:		
SGS	INFO	RMATION FOR	CLEANLIN	ESS INSPEC		& Chemic	cals Services	Division.
	TRANSFER	AT DISCHARGE		SHORE		Z	VESSEL	
THE INFORMATION (	ON THIS LIRIS F-7 WILL B	EUSED TO COMPLETE	LIGIS E.G WAS SUE	MATTED TO US BY	THE DEDS	ON/S) INDICA	TED BE! OW	
······································								
WE CONSULTED FOR TANK II  VESSEL'S STAF			8 (TIME)  TERM	22:15	WITH:	E	OLIANTE!	
OTHER (SPECIFY):	r hand BARG	SE OPERATOR	(X) IEHM	INAL HEPHESE	IVIAIIV	E	CHARTE	1EM
PLEASE PRINT NAME(S)								······································
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TANK MATERIAL:								
TANK #:	1-3 CENTER							
MATERIAL	MILD STEEL							
COATING NAME	N/A				1			
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9	Page 1 of 1
PORT / TERMINAL: Lake Charles, La / Citgo	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 26 VOY #:	INSPECTOR(S): mike elliott
DATE: 6/8/2008	SGS FILE: 101266
CARGO: SULFIDIC CAUSTIC	CLIENT: CES ENVIROMENTAL REF:
SGS TANK CLEAN	LINESS INSPECTION Oil Gas & Chemicals Services Division.
✓ AT LOADING ☐ AT TRANSFER ☐ AT DISCHARGE	☐ AS INSPECTION ONLY ☐ AS PRE-INSPECTION☐ WITH CUSTODY TRANSFER
USE A SEPARATE	E FORM F-9 PER INSPECTION
THIS IS THE FIRST SECOND	THIRD TH INSPECTION
TANK(S): 1-3 CENTER	
BASED ON SUBMITTED INFORMATION (SEE LIRIS	S F-7) AND :
•	·
AND VISUAL INSPECTION	
-	LYTICAL REPORT ON FILE)
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SHIP'S STAFF AND/OR SGS SUPERVISOR AND/O	R CLIENT NOTIFIED ON BY
INSPECTION COMPLETED AT HRS ON TH	
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SIGNATURES :	MIKE ELLIOTT
FOR VESSEL	FOR TERMINAL INSPECTOR
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<del>-</del> -14		Page 1 of
PORT / TERMINAL: Lake C	harles, La / Citgo	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL 26	VOY#:	INSPECTOR(S): mike elliott
DATE: 6/8/2008		SGS FILE: 101266
CARGO: SULFIDIC CAUS	TIC	CLIENT: CES ENVIROMENTAL REF:
COC	CARGO	O QUANTITY OPTION
<u> 202</u>		Oil Gas & Chemicals Services Division.
AT LOADING AT	TRANSFER AT DISCHARGE	RESIDUALS CLEAN PRODUCTS CHEMICALS/GASES
ABOVE VESSEL WILL	LOAD DISCHARGE	AT THIS TERMINAL AT (SPECIFY):
AS PER CHARTER P	ARTY AMENDED C/P P	PRINCIPAL'S INSTRUCTIONS OTHER (SPECIFY)
FOLLOWING QUANTITY(S)	OF SULFIDIC CAUSTIC	
17	\ LT	MT POUNDS OTHER (SPECIFY) 9-6 DRAFT
OR: (	) BBLS	M ³ OTHER AT STD. TEMP OBSERV. TEMP
THIS QUANTITY(S) IS SPECI	providence providence	OTHER CONTINUE
CAM MUMINIM	CIMUM MIN/MAX PLU	JS OR MINUS % OTHER (SPECIFY)
*PLUS OR MINUS	%" IS THE OPTION OF	VESSEL TERMINAL CLIENT
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VESSEL'S CO-MINGLING	ACCEPTABLE TO OUR PRINCIP	PAL YES NO  SEPARATION VOLUMETRIC BLENDING
SIGNATURES) VES	SSEL'S STAFF :	DATE: TIME:
TERMINAL REPI	RESENTATIVE :	DATE: TIME:
	INSPECTOR: MIKE ELLIOT	DATE: 6/9/2008 TIME: 22:30
ARE STOP GAUGES :	- TAKEN B	Y INSPECTOR YES NO
	-TAKEN BY	Y TERMINAL / VESSEL YES NO
	- WITNESS	SED BY INSPECTOR YES NO
REMARKS:		
	······································	
		REMENTS WHEN REQUIRED BY OUR CLIENTS; HOWEVER, VESSEL AND DESERVATION OF STOP GAUGES, VALVE SETTING AND PUMPING INTO AND OUT
OF THE DESIGNATI		
COMPONENTS AND		PERATIONS. VOLUMETRIC OR WEIGHT COMPOSITES CAN BE PREPARED FROM VEVER, DUE TO THE INHERENT DIFFICULTY IN ACHIEVING A HOMOGENEOUS CCEPT ANY RESPONSIBILITY.
Anuright SGS AGEA 1005 - Paul	2-4-0000	Services rendered according to published General Terms and Condition





# Inspection Report (LOADING)

Subject: CCL-26

Product: SPENT CAUSTIC

Date: Location: Lake Charles, La / Citgo

10/12/2008

Our ref.: 116583

Client ref.: TBD

CES ENVIRONMENTAL SERVICES

Summary of Figures	Bbls @ 60°F	Gallons @ 60°F
Shore Measurements		
Total Shore figures delivered GSV Average API Gravity @ 60°F	8,325.69	349,678.98
Shoretanks no(s): TANK/182, TANK/182		
Vessel's Measurements		
Vessel's figures before loading (OBQ) Free Water	0.00	
Vessel's figures before loading (OBQ) Liquid	0.00	
Vessel's figures before loading (OBQ) Non Liquid	0.00	
Vessel's figures before loading (OBQ) Total	0.00	0.00
Vessel's figures TCV on board after loading	8,348.81	350,650.02
Vessel's figures TCV loaded	8,348.81	350,650.02
Vessel's figures Free Water loaded	0.00	0.00
Vessel's figures GSV loaded	8,348.81	350,650.02

Cargo stowage Cargo tanks no(s):

CCL-26[1C, 2C, 3C]

## **Samples**

SHORE TANK 2X1 Quarts Running Barge 1x1 Quart Running Per Cargo Tank

## Quality

None Requested

# Time Log

10/11/2008	0400	INSPECTOR NOTIFIED
	0500	INSPECTOR ARRIVED
	0530	OPENED & GUAGED ST 182
	0630	VESSEL ARRIVED
	0635	VESSEL ALL FAST
	0640	COMMENCED PRELOAD DECK INSPECTION
	0650	COMPLETED PRELOAD DECK INSPECTION
	1110	6" HOSE CONNECTED
	1130	STARTED LOADING
10/12/2008	0000	INSPECTOR NOTIFIED
	0100	VESSEL ARRIVED
	0140	CLOSED & GUAGED ST 182

SGS North America Inc.

Oil, Gas & Chemicals Services 4701 E. NAPOLEON SULPHUR, LA 70663 t((337) 625-1455) f((337) 625-1721) www.sgs.com

Member of the SGS Group (Société Générale de Surveillance)



0920	INSPECTOR NOTIFIED
1000	INSPECTOR ARRIVED
1015	OPENED & GUAGED ST 182 AFTER REFILLING ST 182
1035	RESUMED LOADING AFTER GRAVITATING TO ST 182
1500	INSPECTOR NOTIFIED
1510	COMPLETED LOADING TANKERMAN STOPPED LOAD
1540	6" HOSE OFF
1600	INSPECTOR ARRIVED
1605	COMMENCED POST LOAD INSPECTION
1630	COMPLETED POST LOAD INSPECTION
1645	CLOSED ST 182
1650	COMMENCED CALCULATIONS
1730	COMPLETED CALCULATIONS
1800	INSPECTOR DEPARTED

Steve Cross for SGS Oil, Gas & Chemicals Services 10/13/2008

Shore volume calculated in accordance with: Vessel volume calculated in accordance with: ASTM D 1250-04 ASTM D 1250-04

Procedures as per applicable MPMS Chapter 3.1a, 7, 8.1 or 8.2, 12.1 or 12.2, 17.1, 17.2, 17.4.

Disclaimer

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FIRCC REV. January 2007

F-4	* ***	200.00
PORT / TERMINAL: Lake Charles, La / Citgo	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455	
VESSEL: CCL-26 VOY #:	INSPECTOR(S): M ELLIOTT	
DATE: 10/11/2008	SGS FILE: 116583	
CARGO: Spent Caustic	CLIENT: REF:	

## **TIME LOG**

U	UO								Oil Gas & Chemicals Services Divisi			
9	Y AT LOA	DING	AT TRANSFER				☐ AT DISCHARGE					
		EAR 2008 / MONTH	JAN FEB	MAR APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DE
Date	Hour					<u> </u>						
0/11	04:00	INSPECTOR NOTIF								····		
0/11	05:00	INSPECTOR ARRIV										<u> </u>
10/11	05:30	OPENED GUAGED	ST 182						······			
10/11	06:30	VESSEL ARRIVED										
10/11	06:35	VESSEL ALL FAST										
0/11	06:40	COMMENCED PREI										
10/11	06:50	COMPLETED PREL	DAD DECK INS	PECTION								
10/11	11:10	6" HOSE CONNECT	ED									
0/11	11:30	STARTED LOADING										
0/12	00:00	INSPECTOR NOTIF	ED									
0/12	01:00	VESSEL ARRIVED										
0/12	01:40	CLOSED GUAGED	ST 182			<del></del>	<u> </u>			***************************************		
0/12	09:20	INSPECTOR NOTIF	ED				., , ,			1 1	· · · · · · · · · · · · · · · · · · ·	
0/12	10:00	INSPECTOR ARRIV	ED	·····								
0/12	10:15	OPENED GUAGED	ST 182 AFTER	REFILLING ST	182	<del></del>	,					
0/12	10:35	RESUMED LOADING	AFTER GRAV	ITATING TO S	182	***						
0/12	15:00	INSPECTOR NOTIFI	ED									
0/12	15:10	COMPLETED LOAD	NG TANKERMA	AN STOPPED L	.OAD	<del></del>		···············		<del></del>		
0/12	15:40	6" HOSE OFF				·	***************************************					
0/12	16:00	INSPECTOR ARRIVI	ĒD					.,		····		
0/12	16:05	COMMENCED POST	LOAD INSPEC	TION	···········						·	
0/12	16:30	COMPLETED POST	LOAD INSPECT	TION		······································				****	<del></del>	
0/12	16:45	CLOSED ST 182		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		·····						
0/12	16:50	COMMENCED CALC	ULATIONS								<del></del>	
0/12	17:30	COMPLETED CALC	JLATIONS			<del></del>						<b></b>
0/12	18:00	INSPECTOR DEPAR	TED			·				***************************************		
					· · · · · · · · · · · · · · · · · · ·	~						
					·····						***************************************	
-					····			<u>.</u>		······································	·	
DE	LAYS AND	STOPPAGES:			<del></del>					<del></del>		
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丰												
MES N	AARKED * A	RE SUBMITTED TO US.				<del></del>		4.0	TIME LC	G PAG	= 1 0	F
		June 1997 - Rev Oct 2003				endered a			····			

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F-3A	1.48 1.48 1.48 1.48 1.48 1.48 1.48 1.48
PORT / TERMINAL: Lake Charles, La / Citgo	OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455
VESSEL: CCL-26 VOY #:	INSPECTOR(S): M ELLIOTT
DATE: 10/11/2008	SGS FILE: 116583
CARGO: Spent Caustic	CLIENT: REF:

C	iS	VOYAGE ANALYS

<u> </u>		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	OYAGE AN	ALYSIS HEP	ORI Oil Gas	& Chemicals Sen	vices Division.
✓ LOADIN	G D V.V	TRANSFER [	DISCHARGE	SUMMARY		Type of Voyage	C/P DATE
E LOADIN	G V-V	INANGER	DISCHARGE	JOHNAN		Simple	
Load Port/Termin	al/Berth	ARRIVED	SAILED	Discharge Port/T	erminal/Berth	ARRIVED	SAILED
LAKE CHARLES	S CITGO	10/11/2008	10/12/2008				
VOLUME UNITS	***	SUPPLIER	RECEIVER	VCF SHORE LOAD	VCF SHORE DISCH	VCF VESSEL LOAD	VCF VESSEL DISC
🗹 BBLS 🗌 GAL							
DESCRIPTION	API/DENSITY	тсу	FW	GSV	S&W	NSV	Reference
	OF SHORE QUA	ANTITIES IN CUST					
Bill of Lading 1.		8325.69	0.00	8325.69	0.00		(1)
Outturn 2.							(2)
Diff. 3.							(3)=(2) - (1)
Diff. % 4.							(4) = (3) / (1) x 100
Recalc. B/L 5.	(a)			B/L and O/T use d	ifferent tables.		(5) (a) Vol. Diff.
II. VESSEL/SHO			PORT(S)	0040.04	LIQUID	NON-LIQUID	(A)
Vessel Sail	,		0.00	8348.81			(°) (B)
	Q (All) B		0.00	0.00	0.00	0.00	(C)=(A) - (B)
	ded C	1	0.00	8348.81			(D)=(C)-[(1) or (5)]
	erence D	1	0.00				(E)=(D)/((1)or(5)]×100
	erence % E						(F)=(C)/[(1)or(5)]
Load Vessel Ratio							(G)
Load VEF Theoretical Shore	G						(H)=(C) / (G)
Theoretical Shore		1					(I)=(H) - [(1) or (5)]
Theoretical Shore							(J)=(I)/[(1) or (5)]×100
		<u> </u>					(0)-(1)((1) (1) (0)(1) (1)
II. VESSEL/SHO		·	HARGE PORT(S)	r f	LIQUID	NON-LIQUID	<del>κ</del> )
	3 (All) L	<del> </del>					L)
	charged M	<u> </u>					(M) = (K) - (L)
	erence N		<u> </u>				(N) = (2) - (M)
	erence % O.	<u> </u>					(O) = (N) / (2) x 100
Discharge Vessel		<u> </u>					(P) = (M) / (2)
Discharge VEF	Q.	<u> </u>					(Q)
Theoretical Shore							(R) = (M)/(Q)
Theoretical Shore		<del> </del>					(S) = (2) · (R)
Theoretical Shore		<del></del>					(T) = (S) / (2) x 100
		<u></u>	CHARGE PORT(S	VCE TABLE MI	UST BE CONSISTI	ENT	
	erence U.	<del></del>	CHANGE PONTS	) VOF TABLE RI	JST BE CONSIST		(U) = (K) - (A)
	erence % V.				LIQUID	NON-LIQUID	(V) = (U) / (A) x 100
	erence W.						(W) = (L) - (B)
		TCV Difference (3)	. OBO (B) + BOB (I)	ie.	&W(1)/GSV(1) X100	re	&W(2)/GSV(2)]X100
ADJ TCV DIFF :	(Qua	ntity) / 0.00	COG (D) + NOD (E)	S&W at Load Port		ی S&W at Disch Por	
Comments :							
Prepared by :	M ELLIOTT	Title: INS	SPECTOR	Company :	SGS I	Date Completed :	10/12/2008
Copyright SGS-OG&C		I	0.0,1			ublished General Ter	

F-1					Pag	e de de	
PORT / TERMINAL: Lake Charles, L	.a / Citgo	9	OFFICE LAI	KE CHARLES, LA	TEL (337) 6	25-1455	
VESSEL CCL-26	VOY#		INSPECTOR(S	): MELLIOTT			
DATE 10/11/2008			SGS FILE 1	16583			
CARGO Spent Caustic			CLIENT CE	S ENVIROMENTA	L REF		
SGS		SHORE QUA	NTITY SUM	MARY Oil (	Gas & Chemicals Se	rvices Division.	
✓ AT LOADING □ AT TRANS	FER 🗌	AT DISCHARGE	SHORE	TANK (STATIC)	☐ METE	R (DYNAMIC)	
CUSTODY TRANSFER SAMPLE							
☐ API@ 60°F:	Ĺ.	R.D. 60°F/60°F		Densi	ty Lbs/Gal @		
S&W % VOL:							
SOURCE OF ANALYTICAL DATA:							
	UNITS	TANK/182	TANK/182	TANK/METER	TANK/METER	TANK/METER	
				IANIVIVIETEN	TANNINETER	TANIONETEN	
TOTAL CALCULATED VOLUME	BBLS	6205.22	2120.47				
FREE WATER	BBLS	0.00	0.00				
GROSS STANDARD VOLUME	BBLS	6205.22	2120.47				
S & W VOLUME	BBLS						
(NET) STANDARD VOLUME	BBLS						
WCF TABLE (1 8 )		8.96200	8.96200	8.96200	8.96200	8.96200	
GROSS STANDARD WEIGHT							
S & W WEIGHT							
(NET) STANDARD WEIGHT							
			:				
	UNITS	TANK/METER	TANK/METER	SHORELINE	TOTAL DE	LIVERED	
TOTAL CALCULATED VOLUME	BBLS				8325	5.69	
FREE WATER	BBLS				0.00		
GROSS STANDARD VOLUME	BBLS				8325	5.69	
S & W VOLUME	BBLS						
(NET) STANDARD VOLUME	BBLS		······································		***************************************		
		8.96200	8.96200	8.96200	GSV NSV	SV @	
GROSS STANDARD WEIGHT							
S & W WEIGHT				<u> </u>			
(NET) STANDARD WEIGHT				<del></del>			
<u> </u>					<u> </u>		

STOWAGE (	O/B VESSEL:					
			T	B/L DA	TE:	
REMARKS	QUANTITY CONFIRMED	QUANTITY CHANGES		YES	NO	IF YES STATE REASON
with	of					
with	of	-14			······································	
Date	Time					

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F-2	oa Lo / Citao		OFFICE. LAKE	CHADLES IA	Pag TEL (227) 6				
PORT / TERMINAL: Lake Charl VESSEL: CCL-26	es, La / Citgo VOY #:		OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455 INSPECTOR(S): M ELLIOTT						
DATE: 10/11/2008		······	SGS FILE: 116			······································			
CARGO: Spent Caustic			CLIENT:		REF:				
SGS	VI	ESSEL QUA	NTITY SUM	MARY Oil G	as & Chemicals Se	rvices Division.			
AT LOADING AT TE	RANSFER AT	DISCHARGE	☐ CRUDE O	L	<b>☑</b> PROD	ucts			
API @ 60°F:		LD. 60°F/60°F		Densit	y Lbs/Gal @				
S&W % VOL:									
SOURCE OF ANALYTICAL DAT	A:		Manual Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the			<del></del>			
		A & & & & #							
		OLUME	(t )		WEIGHT	· · · · · · · · · · · · · · · · · · ·			
	BBLS	U.S. GALS		POUNDS	LONG TONS	METRIC TONS (AIR)			
VESSEL'S QUANTITIES	V.E.F. CO	RRECTED:	TYES T	NO	VEF:				
TOTAL CALCULATED VOL	8348.81	350650.02							
FREE WATER	0.00	0.00							
GROSS STANDARD VOLUME	8348.81	350650.02							
S & W VOLUME									
(NET) STANDARD VOLUME									
<b>☑</b> OBQ			ROB						
LIQUID MATERIAL	0.00	0.00							
NON-LIQUID MATERIAL	0.00	0.00							
FREE WATER	0.00	0.00							
TOTAL	0.00	0.00				<u> </u>			
✓ LOADED QUANTIT	nes		DISCHARGED QUA	NTITIES					
			77007741020 007		1				
TOTAL CALCULATED VOL	8348.81	350650.02							
FREE WATER	0.00	0.00							
GROSS STANDARD VOLUME	8348.81	350650.02							
S & W VOLUME			_						
NET) STANDARD VOLUME									
ARE SLOPS INCLUDED IN CAL	CULATIONS	YES	NO	✓ NO	SLOPS ON BOARD				
TOWARD OF VENCEL.		···,							
STOWAGE O/B VESSEL:									
STOWAGE O/B VESSEL:									

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F-10								Page 1 of 2	
PORT / TERMINA	······································	La	/ Citgo		OFFICE LAKE		TEL (337) 625-1455		
VESSEL CCL-26		······································	VOY#		INSPECTOR(S):	M ELLIOTT	SGS FILE 116583	- Hillians	
CARGO Spent C	austic				CLIENT		REF		
CCC		40.00		E TANK MEA					
		Y	AT LOADING	L AT	TRANSFER	AT DISCHARGE	Oil Gas & Chemicals S	ervices Division.	
SHORETANK #		REF HEI		G/	AUGE UNITS		MM . OTHER:		
	E:10/11/2008			E: 10/12/2008 TIN			OPEN	CLOSE	
OBS. REF. HEIGHT	3	#WATER INNAGE	OBS. REF. HEIGHT	§ INNAGE	#WATER INNAGE	INSPECTOR:	M ELLIOTT	M ELLIOTT	
29-11-3/4	27-6 <b>-</b> 0	0-0	8-3-1/8		0-0	WITNESS:			
						API @ 60ºF			
						SOURCE			
						AMBIENT AIR TEMP	68.0	83.0	
	·					TEMP OF TANK SHELL	81	84	
						AVG TEMP (0.1°F)	82.5	83.7	
§ MEASUREMENTS TAKEN IN ACCORDANCE WITH :				INNAGE: API MPM	S 3.1A.9.2	AVG INNAGE	27-6-0	8-3-1/8	
# FREE WATER D	ETERMINED IN	ACCORDANCE WITH	t	API MPMS 3.1A.10	.1	AVG WATER INNAGE	0-0	0-0	
# TEMPERATURE	S TAKEN IN ACC	ORDANCE WITH		API MPMS 7.6.4		VOLUME UNITS   BBLS   M³   OTHER:			
^ VOLUME CALC	ULATED IN ACC	ORDANCE WITH		ASTM D 1250-04		TABLE VOLUME **	8826.89	2621.67	
PROD TEMP	82.5 x	<b>0.875</b> = 72.1875	PROD TEMP	83.7 x 0.0	<b>875</b> = <b>7</b> 3.2375	FREE WATER	0.00	0.00	
(+) AIR TEMP	68.0 x	<b>0.125</b> = 8.5000	(+) AIR TEMP	83.0 x 0.	<b>125</b> = 10.3750	OBSERVED VOLUME	8826.89	2621.67	
TANK SHELLTEM	PERATURE:	= 81	TANK SHELL TE	MPERATURE	<b>≈</b> 84	TANK SHELL CORR.	1.00026	1.00030	
ROOF CORRECT	ION INFO - STAN	DARD API:				OBSERVED VOLUME	8829.18	2622.46	
CRITICAL ZONE	RANGE FROM	то	ROOF I	LEG 🗌 HIGH	LOW	ROOF CORRECTION	1.00	1.00	
		OP	EN	CLC	SE	GROSS OBSERVED VOL.	8830.18	2623.46	
AVG INNULL IN	CRITICAL ZONE	YES	V NO	YES	□ NO	^VCF TABLE : (t 6B )			
SIDEGAUGE/ATO	i	27-5-3/4	27-5-12	8-2-3/4	8-2-11	GROSS STANDARD VOL.			
TEMPERATURES	δ <b>E</b>	# PROBE	MERCURY	# PROBE	MERCURY	DIFFERENCE	620	5.22	
* ACTION TAKE	ł :	<b>✓</b> U 82.5 <b>✓</b> M	82.5 🗸 L 82.5	✔ U 83.7 ✔ M	83.7 🗸 L 83.7	CUSTODY TRANSFER SAM	IPLE:	· · · · · · · · · · · · · · · · · · ·	
***************************************		М		O M	***************************************	API @ 60°F/ DE			
	***************************************	OTHER*		OTHER*		S & W % VOL.			
SIDETEMP/REMO	OTE					S & W VOLUME			
PROBE WAS CH	ECKED PRIOR TO	OUSE YES	□ NO □	NOT USED	***************************************	NET STANDARD VOLUME		1,,,,	
SAMPLING				□ ∪ □ M		WCF TABLE : (t 8 )			
* ACTION TAKE	¥ :		70000	T B		GROSS STANDARD WT.			

OTHER*

OP TEMP:

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AT ULLAGES :

CAL DATE :

Services rendered according to published General Terms and Conditions

LBS OTHER:

OTHER:

MT

NET STANDARD WEIGHT

LT

** IS TABLE VOLUME IN 🗹 BBLS 🔲 M³ 🗍

**WEIGHT UNITS** 

10/13/08

OTHER*

Ref TSh Temp: 60

PORT / TERMINAL: Lake Charles,	La / Citgo		OFFICE LAKE	CHARLES, LA	TEL (337) 625-1455	}		
VESSEL CCL-26	VOY#		INSPECTOR(S): M ELLIOTT SGS FILE 116583					
CARGO Spent Caustic			CLIENT		REF			
CCC	SHOR	E TANK MEA	SUREMENT	S (STATIC)				
<u> </u>	Z AT LOADING		RANSFER	AT DISCHARGE	Oil Gas & Chemicals S	Services Division.		
SHORETANK # 182	REF HEIGHT:	GA	UGE UNITS	FT-IN II FT II	MM OTHER:			
OPEN DATE: 10/12/2008 T	TME: 10:15 CLOSE DAT	E: 10/12/2008 TIM	E: 16:45		OPEN	CLOSE		
OBS. REF. HEIGHT & INNAGE	WATER INNAGE OBS. REF. HEIGHT	§ INNAGE	WATER INNAGE	INSPECTOR:	M ELLIOTT	M ELLIOTT		
21-0-1/2 18-7-0	0-0 14-5-0	12-0-1/8	0-0	WITNESS:				
				API @ 60°F				
				SOURCE				
				AMBIENT AIR TEMP	80.0	85.0		
				TEMP OF TANK SHELL	85	85		
				AVG TEMP (0.1°F)	85.5	85.3		
§ MEASUREMENTS TAKEN IN ACC	ORDANCE WITH :	INNAGE: API MPM	\$ 3.1A.9.2	AVG INNAGE	18-7-0	12-0-1/8		
* FREE WATER DETERMINED IN A	CCORDANCE WITH :	API MPMS 3.1A.10.	1	AVG WATER INNAGE	0-0	0-0		
# TEMPERATURES TAKEN IN ACC	ORDANCE WITH :	API MPMS 7.6.4		VOLUME UNITS BBLS M3 OTHER:				
^ VOLUME CALCULATED IN ACCO	RDANCE WITH :	ASTM D 1250-04		TABLE VOLUME **	5950.82	3831.00		
PROD TEMP 85.5 x (	0.875 = 74.8125 PROD TEMP	85.3 x 0.8	3 <b>75 = 74.63</b> 75	FREE WATER	0.00	0.00		
(+) AIR TEMP 80.0 x 0	).125 = 10.0000 (+) AIR TEMP	85.0 x 0.1	<b>25</b> = 10.6250	OBSERVED VOLUME	5950.82	3831.00		
TANK SHELLTEMPERATURE:	= 85 TANK SHELL TE	MPERATURE	= 85	TANK SHELL CORR.	1.00031	1.00031		
ROOF CORRECTION INFO - STANE	PARD API:			OBSERVED VOLUME	5952.66	3832.19		
CRITICAL ZONE RANGE FROM	TO ROOF!	LEG HIGH	Low	ROOF CORRECTION	1.00	1.00		
	OPEN	CLO	SE	GROSS OBSERVED VOL.	5953.66	3833.19		
AVG INN/ULL IN CRITICAL ZONE	YES NO	YES	□ NO	^VCF TABLE : (t 6B )				
SIDEGAUGE/ATG	18-6-1/2 18-6-7	11-11-1/4	11-11-3	GROSS STANDARD VOL.				
TEMPERATURES *F	# PROBE . MERCURY	# PROBE	MERCURY	DIFFERENCE	212	0.47		
* ACTION TAKEN :	<b>☑</b> U 85.5 <b>☑</b> M 85.5 <b>☑</b> L 85.5	✓ U 85.3 ✓ M	85.3 🗸 L 85.3	CUSTODY TRANSFER SAMPLE:				
	□ M	I M		API @ 60ºF/ DE				
	OTHER*	OTHER*		S & W % VOL.				
SIDETEMP/REMOTE				S & W VOLUME				
PROBE WAS CHECKED PRIOR TO	USE YES NO	NOT USED		NET STANDARD VOLUME				
SAMPLING		D u D m		WCF TABLE : (t 8 )				
* ACTION TAKEN :	□т □в □в	От Ов	□R	GROSS STANDARD WT.				
	OTHER*	OTHER*		NET STANDARD WEIGHT				
AT ULLAGES :				WEIGHT UNITS LT	MT LBS	OTHER:		
CAL DATE:	Ref TSh Temp: 60	OP TEMP:	***************************************	** IS TABLE VOLUME IN	BBLS M3	OTHER:		
Copyright SGS-OG&C 2001 - Rev April 2	005			Services rende	red according to published G	eneral Terms and Conditio		

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EPAHO081001887

F-15											P4	ige (1) of	148
PORT /	TERMINAL:	Lake Charles,	La	/ Cito	90		OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455						
VESSE	L:CCL-26			VOY	#:		INSPECTOR(S):	M ELLIOT	Т	SGS FILE:	116583		
DATE:	10/11/2	008 <b>CARGO</b> :	Spent Causti	0			CLIENT:			REF:			
CI	,C			VES	SEL MEASUF	REMENT	SYSTEM	Y OPEN	CLOSE / F	ESTRICTED			
<u> </u>	10				ARRIVAL	<u> </u>	EPARTURE			Oil Gas &	Chemicals Se	ervices Division.	
AT LOADING AT TRANSHIPMENT AT DISCHARGE					✓ CARG	O TANKS	BALLA	ST TANKS	□ NO	N/OTHER CARG	0		
UNITS: FT-IN FT MM OTHER:						BBLS	U.S. GALS	W ₃	OTHER:				
TANK #	REFERENCE HEIGHT	OBSERVED REFERENCE HEIGHT	¤ INNAGE	WATER INN	TEMPERATURES °F § PROBE	AVG. TEMP	CORRECTED MEASURE	TOTAL OBSERVED VOLUME	FREE WATER	GROSS OBSERVED VOLUME	^ V.C.F. (t ^{6B} )	GROSS STANDARD VOLUME	
1C	16-2-1/2	16-2-1/2	11-8-1/2	0-0	83.0	83.0	11-8-1/2	2816.50	0.00	2816.50			
2C	16-2-1/2	16-2-1/2	11-4-3/4	0-0	83.0	83.0	11-4-3/4	3138.05	0.00	3138.05			
3C	16-2-3/4	16-2-3/4	9-8-1/2	0-0	83.2	83.2	9-8-1/2	2394.26	0.00	2394.26			
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		D PRIOR TO USE				D	TOTALS	8348.81	0.00	8348.81			
GAUGE	LOCATION	: 🗸 STAND		J G.H. on	Expansion Trunk				: w = Wedge	corrected, t = T	***************************************		······································
	AND DATE OF THE PARTY AND A DESIGN AND	OTHER					<del> </del>	API @ 60F / DENSITY @ 15C SOURCE :					
			ortank F≕Fo	rward of Ce	nter A = Aft of Cente	r	S&W-VOL%	· :		·	URCE :		
SAMPL	ES DRAWN	: 1-3C					S&W-VOL:		5.14.14.14.14.14.14.14.14.14.14.14.14.14.	WCF TAE	BLE : (t 8	)	
				· · ·		***************************************	NET STANDAR						··
		PERMANENT	YES I	F NO	SEE F-15 BALLAST	TANKS)	GROSS STANE		<u> </u>				-
	CTION SEA	·				· · · · · · · · · · · · · · · · · · ·	NET STANDAR		h				······································
DRAFT	<del></del>	P) 9-3	AFT (P)		LIST :	[♀] (P) / (S	TOTAL CALC.	VOL. DEPART	URE		**************************************		
		<b>S</b> ) 9-3		9-6			REMARKS :	III ATED III ACO	ADDANAT V"	<u> </u>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		***************************************
SE	A CONDITIO	N: CALMINF					^ VOLUME CALCI				ASTM D 125		·
M ELLIOTT							API MPMS 17.2.5.2						

INSPECTOR

STEMPERATURE DETERMINATION IN ACCORDANCE WITH

API MPMS 17.2.5.3

Services rendered according to published General Terms and Conditions



VESSEL'S STAFF

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Bbls of NON-LIQUID !	لسا	L.J OTHER:					
	• GAUGE POSITIO	V: C = Center	of tank F = Forward				
relationships, this material belongs to our client(s) and	d should be pumped ashore.	OBQ SAMPLED	YE	S NO IF NO			
compensation for the undelivered amount.	•	OBQ TESTED	YE	S D NO IF NO			
		ROB SAMPLED	☐ YE	S NO IF NO			
		DRAFT: FWD (	P) 2-0	<b>AFT (P)</b> 2-0			
	M ELLIOTT	(1	S) 2-0	<b>(\$)</b> 2-0			
VESSEL'S STAFF	INSPECTOR	SEA CONDITIO	N: CALMINI	PORT			
Copyright SGS-OG&C 1997 - Rev April 2005		· · · · · · · · · · · · · · · · · · ·	Se	rvices rendered accordi			
10//3/25							
	remains on board your vessel. To the extent we are a relationships, this material belongs to our client(s) an in case you are unable to do so please indicate your relationships, the have to advise our client(s) of the about the compensation for the undelivered amount. Statements with regards to flowability and similar advopinions without responsibility for SGS.  VESSEL'S STAFF Copyright SGS-OG&C 1997 - Rev April 2005	Statements with regards to flowability and similiar advisory services express personal opinions without responsibility for SGS.  M ELLIOTT  VESSEL'S STAFF INSPECTOR  Copyright SGS-OG&C 1997 - Rev April 2005	remains on board your vessel. To the extent we are aware of contractual relationships, this material belongs to our client(s) and should be pumped ashore.  In case you are unable to do so please indicate your reasons below.  In any event, we have to advise our client(s) of the above and reserve his right to seek compensation for the undelivered amount.  Statements with regards to flowability and similiar advisory services express personal opinions without responsibility for SGS.   OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED  OBQ TESTED	remains on board your vessel. To the extent we are aware of contractual relationships, this material belongs to our client(s) and should be pumped ashore.  In case you are unable to do so please indicate your reasons below.  In any event, we have to advise our client(s) of the above and reserve his right to seek compensation for the undelivered amount.  Statements with regards to flowability and similiar advisory services express personal opinions without responsibility for SGS.  ROB SAMPLED  YE  DRAFT: FWD (P) 2-0  WESSEL'S STAFF  INSPECTOR  SEA CONDITION: C = Center  OBQ SAMPLED  YE  DRAFT: FWD (P) 2-0  SEA CONDITION: C = Center  OBQ SAMPLED  YE  SEA CONDITION: C = Center  OBQ SAMPLED  YE  SEA CONDITION: C = Center  OBQ SAMPLED  YE  SEA CONDITION: C = Center  OBQ SAMPLED  YE  SEA CONDITION: C = Center  OBQ SAMPLED  YE  SEA CONDITION: C = Center  OBQ SAMPLED  YE  SEA CONDITION: C = Center  OBQ SAMPLED  YE  SEA CONDITION: C = Center  OBQ SAMPLED  YE  SEA CONDITION: C = Center  OBQ SAMPLED  YE  SEA CONDITION: C = Center  OBQ SAMPLED  YE  SEA CONDITION: C = Center  OBQ SAMPLED  YE  SEA CONDITION: C = Center  OBQ SAMPLED  YE  SEA CONDITION: C = Center  OBQ SAMPLED  YE  SEA CONDITION: C = Center  OBQ SAMPLED  YE  SEA CONDITION: C = Center  OBQ SAMPLED  YE  SEA CONDITION: C = Center  OBQ SAMPLED  YE  SEA CONDITION: C = Center  OBQ SAMPLED  YE  SEA CONDITION: C = Center  OBQ SAMPLED  YE  SEA CONDITION: C = Center  OBQ SAMPLED  YE  SEA CONDITION: C = Center  OBQ SAMPLED  YE  SEA CONDITION: C = Center  OBQ SAMPLED  YE  SEA CONDITION: C = Center  OBQ SAMPLED  YE  SEA CONDITION: C = Center  OBQ SAMPLED  YE  SEA CONDITION: C = Center  OBQ SAMPLED  YE  SEA CONDITION: C = Center  OBQ SAMPLED  OBQ SAMPLED  OBQ SAMPLED  OBQ SAMPLED  OBQ SAMPLED  OBQ SAMPLED  OBQ SAMPLED  OBQ SAMPLED  OBQ SAMPLED  OBQ SAMPLED  OBQ SAMPLED  OBQ SAMPLED  OBQ SAMPLED  OBQ SAMPLED  OBQ SAMPLED  OBQ SAMPLED  OBQ SAMPLED  OBQ SAMPLED  OBQ SAMPLED  OBQ SAMPLED  OBQ SAMPLED  OBQ SAMPLED  OBQ SAMPLED  OBQ SAMPLED  OBQ SAMPLED  OBQ SAMPLED  OBQ SAMPLED			

PORT / TERMINAL: Lake Charles, La / Citgo OFF								OFFICE: LAKE CHARLES, LA TEL: (337) 625-1455					
VESSEL: CCL-26 VOY #:								INSPECTOR(S): M ELLIOTT SGS FILE: 116583					
DATE:	DATE: 10/11/2008 CARGO: Spent Caustic CLIENT: REF:												
SGS OBQ									SUREMENT IS NOT TAKEN	<b>T</b>	Oil Gas 8	Chemicals Service	ces Division.
UNITS:	¥ F	T-IN		FT	MM	□ o	THER:		UNITS: 🗹	BBLS	U.S. GALS	M³ C	THER:
TANK #	REFERENCE HEIGHT	OBSERVED REFERENC E HEIGHT	*	OBSERVED INNAGE	FREE WATER INNAGE	NON-LIQUID INNAGE	AVG. TEMP	CORRECTED MEASURE	TOTAL OBSERVED VOLUME	^ V.C.F.	FREE WATER VOLUME	NON-LIQUID VOLUME	LIQUID VOLUME
1C	VISUAL	VISUAL		0-0	0-0	0-0	60	0-0	0.00		0.00	0.00	0.00
2C	VISUAL	VISUAL		0-0	0-0	0-0	60	0-0	0.00		0.00	0.00	0.00
3C	VISUAL	VISUAL		0-0	0-0	0-0	60	0-0	0.00		0.00	0.00	0.00
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1		1750 01 1000	<u>L</u>				<u> </u>						
		ATED IN ACCOR						TOTALS	0.00		0.00	0.00	0.00
On behalf of our client(s) we would like to bring to your attention that in our opinion :  Bbls of LIQUID MATERIAL  Bbls of NON-LIQUID MATERIAL						d = dip, u = Ullage; corrected measure, w = Wedge corrected, t = Trim corrected  GAUGE LOCATION: STANDPIPE G.H. on Expansion trunk  OTHER:					unk		
	•	our vessel. To th						• GAUGE POSITION: C = Center of tank F = Forward of Center A = Aft of Center					
		iaterial belongs t ble to do so plea:				d ashore.		OBQ SAM	PLED L	YES 🗔	NO IF NO	REASON	
In an	y event, we hav	e to advise our c	lien	t(s) of the above		right to seek			1	L')	*****************************	······································	
compensation for the undelivered amount.  Statements with regards to flowability and similiar advisory services express personal						OBQ TES	TED 🗀	YES 🔝	NO IF NO	REASON			
opinions without responsibility for SGS.							1	V/50	***				
ROB SAMPLED						YES	NO IF NO	REASON					
				WANTE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY				DRAFT:	FWD (P) 2-0	,	AFT (P) 2-0	LIST	Γ: ⁹ (P) / (S)
					M	ELLIOTT			<b>(\$)</b> 2-0		<b>(S)</b> 2-0		
	VESSE	L'S STAFF			1	NSPECTOR		SEA CO	NDITION: CALM	IN PORT			
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F-16



To: Jenny Rust SGS REF NO: 129574

**CES ENVIRONMENTAL** REF#

### **SUMMARY OF FINDINGS**

### **OPERATION**

DISCHARGE FROM THE CCL 26 TO SHORE TANK 607 AT KMTEX, PORT ARTHUR, TX ON 1/29/2009 OF A CARGO DESCRIBED AS SULFIDIC CAUSTIC

## **QUANTITY**

		DELIVERED (1)	RECEIVED (2)	DIFFERENCE	PERCENT
TOV	BARRELS	8,619.43	8,593.61	25.82	0.30
	U.S. GALLONS	362,016.06	360,931.62	1,084.44	0.30

- Delivered quantity based on barge figures
   Received quantity based on shore tank(s) TANK 607
   Arrival: 8,619.43 GSV BBLS
- 4. ROB: 0.00 GSV BBLS

### TIME LOG

1/29/2009	10:00 10:20 10:25 10:30 10:50 10:50	INSPECTOR NOTIFIED INSPECTOR ARRIVED S/T 607 GAUGED OPEN BARGE ARRIVED NO EQUIPMENT TO CONNECT CARGO HOSE (1030-1300) BARGE DOCKED COMMENCED BARGE INSPECTION COMPLETED BARGE INSPECTION CARGO HOSE CONNECTED COMMENCED DISCHARGE INSPECTOR NOTIFIED COMPLETED DISCHARGE BLEW LINE BACK TO SHORE 1820-1850 (EMPTY TO EMPTY) INSPECTOR ARRIVED COMMENCED FINAL BARGE INSPECTION COMPLETED FINAL BARGE INSPECTION BARGE RELEASED TO TERMINAL S/T 607 GAUGED CLOSE
	19:05	CARGO HOSE DISCONNECTED

Darren W. Le Blanc Date: 1/30/2009

SGS North America Inc.

Oil, Gas & Chemicals Services

t(409 727 1035) www.sgs.com

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Shore volume calculated in accordance with:

TOV TOV

Vessel volume calculated in accordance with:

Definition of Terms as per MPMS Chapter 1.

Procedures as per applicable MPMS Chapter 3.1a, 7, 8.1 or 8.2, 12.1 or 12.2, 17.1, 17.2, 17.4.

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#### Jennifer Rust

From:

LeBlanc, Darren W (Beaumont) [Darren.LeBlanc@sgs.com]

Sent:

Monday, February 02, 2009 1:06 PM

To:

LeBlanc, Darren W (Beaumont); Jennifer Rust

Subject:

REPORT: Discharge "CCL 26" Sulf Caustic @ Kmtex, Pt Arthur, TX on 1/29/08

Subject line should read "CCL 26" (report does) Not "CCL 7" ----> will follow.....

Best Regards,

Darren W. Le Blanc Oil, Gas & Chemical Services 2310 Hwy 69N. Nederland, Texas USA 77627

Cell:

Main Office: 409-727-1035 409-749-0776 409-727-1846

Fax: email:

darren.leblanc@sgs.com

Safety...Our Job, Our Promise

Please visit the SGS Oil, Gas & Chemicals Services website for more information on all of the services we offer.

#### www.us.sgs.com/ogc

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From: LeBlanc, Darren W (Beaumont) Sent: Monday, February 02, 2009 1:03 PM

To: 'Jennifer Rust'

Subject: FW: REPORT: Discharge "CCL 7" Sulf Caustic @ Kmtex, Pt Arthur, TX on 1/29/08

Best Regards,

Darren W. Le Blanc Oil, Gas & Chemical Services 2310 Hwy 69N. Nederland, Texas USA 77627

Main Office: 409-727-1035 Cell:

409-749-0776

Fax: 409-727-1846

email: darren.leblanc@sgs.com

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#### www.us.sgs.com/ogc

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To: JENNY RUST SGS Ref. No: 124899

1 re in bad 100 gallons CES ENVIRONMENTAL Your Ref. No: MMARY OF FINDINGS

OPERATION LOADING FROM 606, 501 AT KMTEX, PORT ARTHUR, TX ON 12/13/2008 OF A CARGO DESCRIBED AS SPENT CAUSTIC

**QUANTITY** DELIVERED RECEIVED DIFFERENCE PERCENT U.S. BARRELS 6,543.06 6,367.55 175.51 2.68 U.S. GALLONS 274,808.45 267,437.00 7,371.45 2.68 T o

1. Delivered quantity based on SHORE MEASUREMENTS

2. Received quantity based on BARGE MEASUREMENTS
3. CCL-7 OBQ: 1,082.81 U.S. Barrels

4. CCL-7 DEPARTURE: 7,450.36 U.S. Barrels

QUALITY: SAMPLES DELIVERD TO CES, PTA, TX

#### **TIME LOG**

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12/12/2008	13:25	INSPECTOR NOTIFIED
	14:00	ARRIVED AT OFFICE
	14:00	BARGE ARRIVED
	14:30	ARRIVED AT KMTEX
	14:30	BARGE DOCKED
	14:40	COMMENCED BARGE PRIOR INSPECTION
	15:00	COMPLETED BARGE PRIOR INSPECTION
	15:00	CARGO HOSE CONNECTED
	17:00	GAUGED S/T 164 (TERMINAL XFER CARGO TO ANOTHER S/T PRIOR TO LOADING)
	17:15	GAUGED S/T 606 OPEN
	17:30	GAUGED S/T 501 OPEN
	17:50	INSPECTOR DEPARTED
	18:40	COMMENCED LOADING
12/13/2008	00:30	INSPECTOR NOTIFIED
	01:30	ARRIVED AT KMTEX
	01:55	COMPLETED LOADING; BARGE STOP
	02:10	GAUGED S/T 164
	02:20	GAUGED S/T 606 CLOSE
	02:30	CARGO HOSE DISCONNECTED
	02:35	GAUGED S/T 501 CLOSE
	02:50	COMMENCED BARGE FINAL INSPECTION
	03:20	COMPLETED BARGE FINAL INSPECTION
	03:30	COMMENCED CALCULATIONS
	04:00	COMPLETED CALCULATIONS

SGS North America Inc.

Oil, Gas & Chemicals Services

t(727-1035) www.sgs.com



SAMPLES DELIVERED TO CES 04:30 04:45 INSPECTOR DEPARTED

Darren W. Le Blanc

Date: 12/15/2008

Shore volume calculated in accordance with:

TOV

Vessel volume calculated in accordance with:

TOV

Definition of Terms as per MPMS Chapter 1.

Procedures as per applicable MPMS Chapter 3.1a, 7, 8.1 or 8.2, 12.1 or 12.2, 17.1, 17.2, 17.4.

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To: JENNY RUST SGS Ref. No: 124899 CES ENVIRONMENTAL Your Ref. No:

#### **SUMMARY OF FINDINGS**

#### **OPERATION**

LOADING FROM 606, 501 AT KMTEX, PORT ARTHUR, TX ON 12/13/2008 OF A CARGO DESCRIBED AS SPENT CAUSTIC

QUANTITY	DELIVERED	RECEIVED	DIFFERENCE	PERCENT
U.S. BARRELS	6,543.06	6,367.55	175.51	2.68
U.S. GALLONS	274,808.45	267,437.00	7,371.45	2.68
T				
O				
V				

# Delivered quantity based on SHORE MEASUREMENTS Received quantity based on BARGE MEASUREMENTS CCL-7 OBQ: 1,082.81 U.S. Barrels CCL-7 DEPARTURE: 7,450.36 U.S. Barrels

#### QUALITY: SAMPLES DELIVERD TO CES, PTA, TX

### TIME LOG

12/12/2008	13:25	INSPECTOR NOTIFIED
	14:00	ARRIVED AT OFFICE
	14:00	BARGE ARRIVED
	14:30	ARRIVED AT KMTEX
	14:30	BARGE DOCKED
	14:40	COMMENCED BARGE PRIOR INSPECTION
	15:00	COMPLETED BARGE PRIOR INSPECTION
	15:00	CARGO HOSE CONNECTED
	17:00	GAUGED S/T 164 (TERMINAL XFER CARGO TO ANOTHER S/T PRIOR TO LOADING)
	17:15	GAUGED S/T 606 OPEN
	17:30	GAUGED S/T 501 OPEN
	17:50	INSPECTOR DEPARTED
	18:40	COMMENCED LOADING
12/13/2008	00:30	INSPECTOR NOTIFIED
	01:30	ARRIVED AT KMTEX
	01:55	COMPLETED LOADING; BARGE STOP
	02:10	GAUGED S/T 164
	02:20	GAUGED S/T 606 CLOSE
	02:30	CARGO HOSE DISCONNECTED
	02:35	GAUGED S/T 501 CLOSE
	02:50	COMMENCED BARGE FINAL INSPECTION
	03:20	COMPLETED BARGE FINAL INSPECTION
	03:30	COMMENCED CALCULATIONS
	04:00	COMPLETED CALCULATIONS

SGS North America Inc.

Oil, Gas & Chemicals Services

t(727-1035) www.sgs.com

Member of the SGS Group (Société Générale de Surveillance)



04:30 SAMPLES DELIVERED TO CES 04:45 INSPECTOR DEPARTED

> Darren W. Le Blanc Date: 12/15/2008

Shore volume calculated in accordance with:

TOV

Vessel volume calculated in accordance with:

TOV

Definition of Terms as per MPMS Chapter 1.

Procedures as per applicable MPMS Chapter 3.1a, 7, 8.1 or 8.2, 12.1 or 12.2, 17.1, 17.2, 17.4.

#### DISCLAIMER

This document is issued by the Company under its General Conditions of Service accessible at <a href="http://www.sgs.com/terms_and_conditions.htm">http://www.sgs.com/terms_and_conditions.htm</a>. The Client's attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. FIRCC REV. January 2007

Jenny- This was by first
bargewer rested to the glycol project—
I mist want to keep
This in case trus Thould ever try to
come back on us
村 - 「まして」とし、「これに経過時段凝固は発生が、動詞で含まって、として、これには、これをよっては、これには、

#### **Kelli Lofton**

From:

Nick Wuertz [Nwuertz@dunhillproducts.com]

Sent: To: Monday, July 09, 2007 8:34 AM klofton@cesenvironmental.com

Subject:

FW: EMC-491

Attachments:

HPIM0448.JPG; HPIM0450.JPG

Kelly,

I just wanted to let you know that the barge was damaged during your charter, which is not your liability or anything but I wanted you to see what can happen when someone else pushes your equipment. The Junior Chib was cleared by use to push the EMC-491 and we are guessing that they hit the dock causing this hole in the starboard side of the vessel, which they did not inform us of. I just wanted you to see why we have a hard time letting anyone push our equipment.

Best regards,

#### **Nick Wuertz**

Dunhill Products, LP 450 C Government St. Mobile, Al 36602 (251)432-0665 office (251)421-4118 cell (251)432-1919 fax

Nwuertz@dunhillproducts.com

Yahoo: nick_wuertz

**From:** Teresa M.K. McCoy [mailto:tmccoy@accumarinetransport.com]

**Sent:** Friday, July 06, 2007 11:42 AM **To:** bwhaney@accumarinetransport.com

Cc: Henry Wuertz; Nick Wuertz; terrry@dunhillproducts.com; swilson@accumarinetransport.com

Subject: Fwd: EMC-491

Teresa M.K. McCoy Director of Safety & Compliance Accumarine Transportation, LP

Phone: 251-605-9589 Fax: 251-964-6123

----Original Message----

From: Pete Kolp [mailto:pete.kolp@sabinesurveyors.com]

**Sent:** Friday, July 6, 2007 12:18 PM

To: 'Teresa M.K. McCoy'

Subject: EMC-491

Theresa,

Sorry about the blurry photo. Its raining hard.

The set in plate is about 25" x 36" and 4" deep just under the starboard bow nameplate CBC101.

To put an insert into this area, the new plate will probably need to be larger and possibly much larger.

The following are good reputable repair companies. Tell them I refered you.

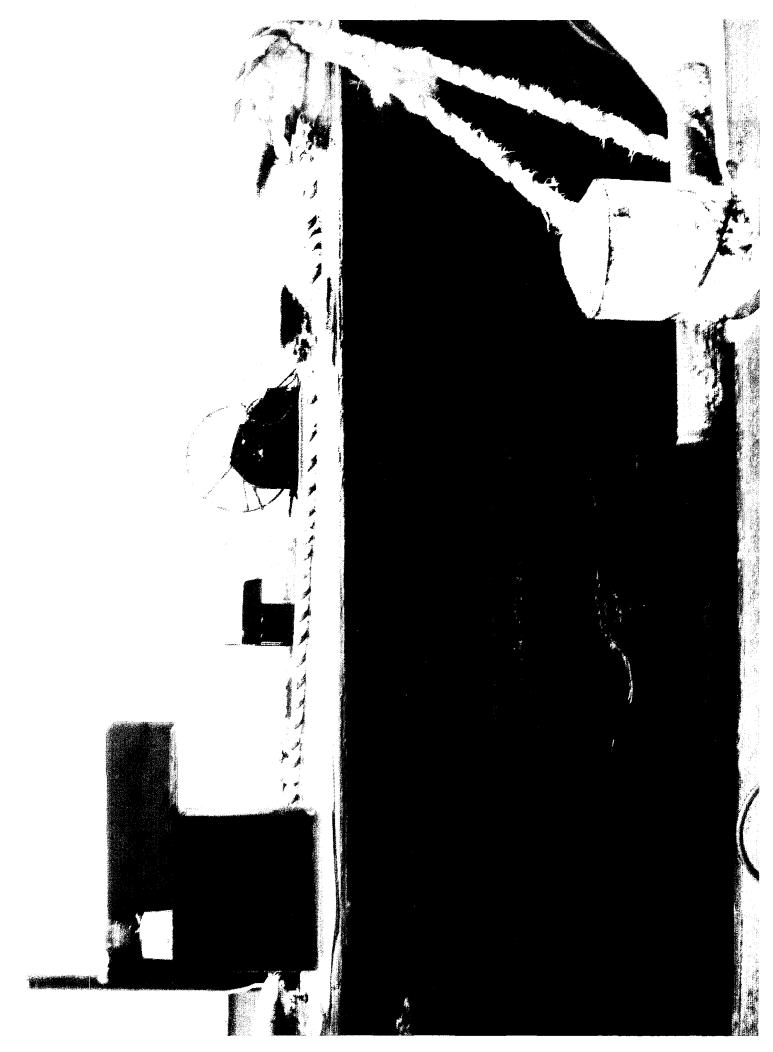
Tubal Cain Repair Service - Call Eddie @ 409-962-8800

Burton's S/Y- 409-735-2491 or 409-735-8825 Vessel Repair - 409-962-1302 R&R Marine drydock and repair - 888-484-0860 or 409-963-0035

Hope this helps.

Please let me know about the scheduling of the USCG inspection.

Regards, Peter Kolp Sabine Surveyors, Ltd. (409) 724-6969



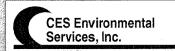
EPAHO081001902



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NES SAN



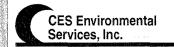


	Job Date Job#	Status	Rep	Customer		Generator	Transporter	SearchDescF	Job Pro	fit
-	7/31/2009 89390	Sched	JB	Soltex		Soltex c/o Lindon Manufacturi	CES Environmental Serv	Soltex (Soltex - Baytown) Non-Bulk Disposal	\$3600	
	7/31/2009 89392	New	JB	Soltex		Soltex c/o Lindon Manufacturi	CES Environmental Serv	Soltex (Soltex - Baytown) Product Drums		
	7/31/2009 89470	Sched	JB	H & H Oil, L.P.		H & H Oil, L.P.	CES Environmental Serv	H & H Oil, L.P. (Pflugerville, TX) Oily Water	\$750	
	7/31/2009 89515	Comp	JB	Enviro Solutions	- Baytowi	n Enviro Solutions - Baytown	Petroleum Express	Enviro-solutions(baytown) oily water	450	

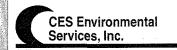




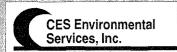
Job Date	Job#	Status	Rep	Customer	Generator	Transporter	SearchDescF	Job Prof
8/1/2009	89487	Sched	DC	Trimac DSI Transporters (	Trimac DSI Transporters (Bay	CES Environmental Serv	Trimac DSI Transporters (Baypark Rd.) Sump Sludge	teud
8/1/2009	89505	Sched	DB	Proler Southwest	Proler Southwest	CES Environmental Serv	Proler SW (Houston) Oily Water	650
8/1/2009	89506	Sched-PA	UN	CES Environmental Servic	CES Environmental Services -	CES Environmental Serv	CES Internal Work	
8/1/2009	89507	Sched-PA	YUN	CES Environmental Servic	CES Environmental Services -	CES Environmental Serv	CES Internal Work	
8/1/2009	89508	Comp	UN	CES Environmental Servic	CES Environmental Services -	CES Environmental Serv	CES Internal Work	
8/1/2009	89509	Sched-PA	UN	CES Environmental Servic	CES Environmental Services -	CES Environmental Serv	CES Internal Work	<u></u>
8/1/2009	89521	Can	,DB	H & W Petroleum	H & W Petroleum	CES Environmental Serv	H & W Petroleum (Houston) Oily water	\$450
8/1/2009	89522	Can	DB	H & W Petroleum	H & W Petroleum	CES Environmental Serv	H & W Petroleum (Houston) Oily water	\$450
8/1/2009	89523	Can	DB	H & W Petroleum	H & W Petroleum	CES Environmental Serv	H & W Petroleum (Houston) Oily water	\$450
8/1/2009	89524	Can	DB	H & W Petroleum	H & W Petroleum	CES Environmental Serv	H & W Petroleum (Houston) Oily water	\$450



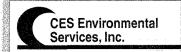
Job Date Job#	Status	Rep	Customer	Generator	Transporter	SearchDescF	Job Profit
7/31/2009 89398	Sched	JC	NOV Monoflo	NOV Monoflo	CES Environmental Serv	National Oil Well-Monoflo (Monoflo-Houston) Degreaser Water to CES	1200
7/31/2009 89448	Can	JC	NOV Monoflo	NOV Monoflo	CES Environmental Serv	National Oil Well-Monoflo (Monoflo-Houston) Degreaser Water to CES	1200
7/31/2009 89467	Sched	JC	Dresser Flow	Dresser Flow	CES Environmental Serv	Dresser Meters (Dresser Flow-Port Northwest) Production Waste	\$1200
7/31/2009 89492	Sched	JC	Hexion Specialty Chemical	Hexion Specialty Chemicals (D	CES Environmental Serv	Hexion (Hexion-Diboll) Formaldehyde Water	\$750



Job Date Job#	Status	Rep	Customer	Generator	Transporter	SearchDescF	Job Profit
7/31/2009 89235	Sched	MB	RohMax USA, IncHousto	RohMax USA, IncHouston	• • • • • • • • • • • • • • • • • • • •	Rohmax (Rohmax - Deer Park, TX) Trans from tank to sewer	590
7/31/2009 89241	Sched	MB	KMCO, Inc.	KMCO, Inc.		KMCO (KMCO Crosby, TX ) Non-RCRA biosludge	\$900
7/31/2009 89249	Comp	MB	Citgo Refinery	Citgo Refinery	CES Environmental (Port	Citgo Refinery (Citgo - Lake Charles, LA) Naphthenic Caustic Recycling	\$2800
7/31/2009 89501	Sched	MB	KMCO, Inc.	KMCO, Inc.	CES Environmental Serv	KMCO (KMCO-Crosby, TX) Oily Water	\$1000



Job Date Job #	Status	Rep	Customer	Generator	Transporter	SearchDescF	Job Profit
7/31/2009 89365	Sched	DC	T.T. Barge (Mile 237)	T.T. Barge (Mile 237)	CES Environmental Serv	T.T. Barge (T.T. Barge Mile 237- Port Allen, LA) Hazardous Waste water	\$2050
7/31/2009 89366	Sched		T.T. Barge (Mile 237)	T.T. Barge (Mile 237)	CES Environmental Serv	T.T. Barge (T.T. Barge Mile 237- Port Allen, LA) Hazardous Waste water	\$2050



Job Date Job#	Status	Rep	Customer	Generator	Transporter	SearchDescF	Job Profit
7/31/2009 89237	Sched	DB	Farouk Systems ==	Farouk Systems	CES Environmental Serv	Farouk (Farouk-Houston) Waste Water	1000
7/31/2009 89335	Comp	DB	GSF Energy, LLC	GSF Energy, LLC	CES Environmental Serv	GSF WET (GSF-Houston) Iron Sponge Removal	\$2000
7/31/2009 89338	Sched	DB	GSF Energy, LLC	GSF Energy, LLC	CES Environmental Serv	GSF WET (GSF-Houston) Iron Sponge Removal	\$2000
7/31/2009 89463	Sched	DB	Proler Southwest	Proler Southwest	CES Environmental Serv	Proler SW (Houston) Oily Water	650
7/31/2009 89464	Sched	DB	Proler Southwest	Proler Southwest	CES Environmental Serv	Proler SW (Houston) Oily Water	650
7/31/2009 89503	Sched	DB	GSF Energy, LLC	GSF Energy, LLC	CES Environmental Serv	GSF WET (GSF-Houston) Iron Sponge Disposal	\$3800
7/31/2009 89504	Comp	DB	GSF Energy, LLC	GSF Energy, LLC	CES Environmental Serv	GSF WET (GSF-Houston) Iron Sponge Disposal	\$3800
7/31/2009 89517	Sched	DB	H & W Petroleum	H & W Petroleum	CES Environmental Serv	H & W Petroleum (Houston) Oily water	\$450

4904 Griggs Road Houston, TX 77021 Phone: 713-676-1460 Fax: 713-676-1676

April 22, 2009

Rio Tinto Minerals 17509 Van Road Houston, TX 77049

Re: Drummed Waste Transportation & Disposal

#### Dear Environmental Team:

CES Environmental Services appreciates the opportunity to present to you our proposal for the recycling and disposal of your various drummed wastes. Please find below our proposed scope of service and associated pricing for your consideration.

#### **Scope of Service**

- CES will collect, treat, recycle or dispose of the drummed and universal wastes in accordance with local, state, and federal regulations.
- CES will provide transportation of the wastes to our processing plant in Houston, TX if requested.
- CES will provide for the manifests, bills of lading, labels, and appropriate shipping documents.

#### **Estimated Costs**

Description of Service	Estimated Price
Drummed Waste	
Oil Filters	\$35 per drum
Absorbent Pads	\$65 per drum
Used Grease	\$55 per drum
Lamp Recycling	
Flourescent Lamps (4' and shorter)	\$1.25 each
Flourescent Lamps (5' and longer)	\$1.50 each
Compacts	\$1.25 each
Shielded Fluorescent (all lengths)	\$1.90 each
U-Bend or Circular	\$1.35 each
High Intensity Discharge (HID)	\$1.70 each
Ozone/Purification/UV	\$1.80 each

Batteries	
Lead Acid	\$1.25 per pound
Ni-Cad or Alkaline	\$1.65 per pound
Lithium	\$3.50 per pound
Magnesium or Silver-Zinc	\$4.25 per pound
Ballasts	
Non-PCB Ballasts	\$1.15 per pound
PCB Ballasts	\$1.55 per pound
Leaking PCB Ballasts	\$3.00 per pound
Paint Waste	
Paint Waste - liquids	\$125 per drum
Paint Waste - Sludges	\$155 per drum
Paint Waste - solids	\$245 per drum
Paint Waste - Non-processible solids	\$0.95 per pound
Transportation	
Transportation (4 hr minimum)	\$70 per hour
Fuel Surcharge	8% of transportation

#### Conditions/Assumptions

- Disposal pricing subject to change pending final profile approval and receipt of waste.
- The above pricing is based on time and materials, the customer's invoice will reflect the actual quantities utilized on the project.
- All equipment utilizing motor fuel is subject to a 4 hour minimum and fuel surcharge based on the current market price of motor fuel. As of the date of this proposal, the current fuel surcharge rate is 7.5%.
- A compliance surcharge of 1% is assessed on the total invoice based on compliance filing fees from federal and or state governments.

It is our sincere hope that you find our proposed scope of service and associated pricing appealing and will consider utilizing the services offered by CES Environmental Service, Inc. If you have any questions or comments or would like to begin service, please feel free to contact me at 281-701-8511.

Sincerely,

Joy Baker



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

## Waste Pre-Acceptance/Approval Letter

Date 8/3/2009

Dear Michael Williams

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3446

**Expiration Date** 7/30/2011

**Generator:** Rio Tinto Minerals **Address:** 17509 Van Rd.

Houston, TX 77049

Waste Information

Name of Waste: Oily pads
TCEQ Waste Code #: Recycle

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Oily pads from basic maintenance operations

Color: Varies Odor: Sl

**Odor:** Slight hydrocarbon

**pH**: Na

**Physical State:** 

Incompatibilities: Oxidizers

Safety Related Data/Special Handling:

None

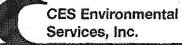
If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.







4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

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Does this material	contain any par	ra substiti	ited phenolic	compo	unds?	[	Yes	6	No				
Is the Waste subject						art 61,	Subpart i	FF)		Yes	V	No	
	816 2819		322 2823	2824	2833	2834	2835	2836	2841	2842	2843	2844	2851
	869 2873		376 2879	2891	2892	2893	2896	2899	2911	3312	4953	4959	9511
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If "Yes", is it:	D001	D002	D003										

Characteristic for Toxic N	letals:		005   D006   009   D010	D007			
Characteristics for Toxic	Organics: D012 thr	u D043 (	please list all that apply)	romanium projection in the second			
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If "Yes", then please	list ALL applicable c	odes:	797,5500 1980 1980 1980 1980 1980 1980 1980 19				
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³roper U.S. State Waste	Code No :		Non-RCRA/No	n-DOT Regulated	Material		
Class: na	UN/NA :	na	PG:	na		RQ:	na
Flash Point	рН		Reactive Sulfides	Reactive Cyar	ides	Solids	***************************************
>200	na	_	0mg/l	0	mg/l	100	%
Oil and Grease	тос		Zinc	Copper		Nickel	
>100 mg/l	0	mg/l	0 mg/l	0	mg/l	400	mg/l
SECTION 4: Physical and C	nemical Data  COMPONENTS  product consists of	CONTRACTOR AND CONTRACTOR OF THE CONTRACTOR AND CONTRACTOR AND CONTRACTOR AND CONTRACTOR AND CONTRACTOR AND CO	llowing materials	manuscriptor and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	ncentration are accept	alangering that is a second of the second of the second	Jnits⊚ or %
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SECTION 5: Safety Related I f the handling of this wa none		se of spe	ecial protective equipme	ent, please explai	n.		
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SECTION 7: Incompatibilitie	s .						
Please list all incompatiboxidizers	illities (if any):						
SECTION 8: Generator's Kn	owledge Documental	tion					
Laboratory analysis of the		e charac	teristics, listed below, \	NAS NOT PERFO	RMED base	d upon the	4
TCLP Metals :	<b></b>						
TCLP Volatilies :	X						
TCLP Semi-Volatiles :	X						
Reactivity:	X		2				

Corre	sivity: <u>x</u>
gnita	bility: <u>x</u>
•	
***************************************	ON 9: Waste Receipt Classification Under 40 CFR 437
s this	material a wastewater or wastewater sludge? YES V NO
f'YES	S', complete this section
PLEA	SE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE
Vlatal	s Subcategory: Subpart A
	Spent electroplating baths and/or sludges
	Metal finishing rinse water and sludges
	Chromate wastes
	Air pollution control blow down water and sludges
	Spent anodizing solutions
	Incineration wastewaters
	Waste liquid mercury
	Cyanide-containing wastes greater than 136 mg/l
	Waste acids and bases with or without metals
	Cleaning, rinsing, and surface preparation solutions from electroplating or phosph
	Vibratory deburring wastewater
	Alkaline and acid solutions used to clean metal parts or equipment
	ubcategory: Subpart B
	Used oils
	Oil-water emulsions or mixtures
	Lubricants Coolants
	Contaminated groundwater clean-up from petroleum sources
П	Used petroleum products
П	Oil spill clean-up
П	Bilge water
	Rinse/wash waters from petroleum sources
	Interceptor wastes
	Off-specification fuels
	Underground storage remediation wastes
	Tank clean-out from petroleum or oily sources
	Non-contact used glycols
	Aqueous and oil mixtures from parts cleaning operations
	Wastewater from oil bearing paint washes
Organ	ics Subcategory Subpart C Landfill leachate
	Contaminated groundwater clean-up from non-petroleum sources
	Solvent-bering wastes
	Off-specification organic product
	Still bottoms
	Byproduct waste glycol
	Wastewater from paint washes
	Wastewater from adhesive and/or epoxies formulation

Wastewater from organic chemical product operations

Approved

Approval Number:

Relected



## PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):
\$105/DM
2. Contamination Limit (maximum limit before surchages apply):
3. Surcharge Pricing:
4. Special Testing Requirements:
4. Special resting Requirements.
5. Treatment and Handling Protocol:
10 Blkto Clars I box
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



### PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product i	Recovered/Recycled	(if applicable):		
		Pocyclod /if applies	able)	
8. Management for F	Product Recovered/R	vecacien (ii abbiica		
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#### Jennifer Rust

From:

Jennifer Rust

Sent:

Thursday, July 23, 2009 5:23 PM

To:

'Williams, Mike (RTM)'

Subject: Attachments: RE: Rio Tinto profiles to CES image001.jpg

So we will receive 3 boxes of bulbs, I box of ballasts & 3 drums of batteries? I just checked the fax machine & had not received the signed profiles - once I have those I can approve your delivery.

Thank You!

ptin Wat Quantities.

### Jennifer Rust

Direct: 713-800-7907 Cell: 713-367-8581

From: Williams, Mike (RTM) [mailto:Mike.Williams@riotinto.com]

Sent: Thursday, July 23, 2009 4:11 PM

To: Jennifer Rust

Subject: RE: Rio Tinto profiles to CES

Hi, Jennifer

Inventory list: 17 Halogen bulbs, Fluorescent Bulbs 4 footer 118, 8 footer 12, Batteries 8 lithium, 4 lead acid, 3 sulfic acid. Nickel cadmium, 2 Lilon, 1 LiMn Oz, 1 Nickel Metal Hydride, 1 Fluorescent Ballast

**From:** Jennifer Rust [mailto:jrust@cesenvironmental.com]

Sent: Thursday, July 23, 2009 10:12 AM

To: Williams, Mike (RTM)

Subject: RE: Rio Tinto profiles to CES

Please send me the inventory as well so I can complete the order. She mentions something about Paint drums – is this empty paint cans & paint related material? Are the ballasts non-pcb ballasts? Once I have this information I can complete a profile.

Thank You!

### Jennifer Rust

Direct: 713-800-7907 Cell: 713-367-8581

From: Williams, Mike (RTM) [mailto:Mike.Williams@riotinto.com]

Sent: Thursday, July 23, 2009 9:27 AM

To: Jennifer Rust

Subject: FW: Rio Tinto profiles to CES

From: Morgan McCarley [mailto:mmccarley@cesenvironmental.com]

Sent: Tuesday, July 21, 2009 3:06 PM

To: Williams, Mike (RTM)

Cc: Joy Baker

Subject: Rio Tinto profiles to CES

Mike-

I'm your customer service rep and I have a few questions about the waste you're wanting us to pick up. I have attached the profiles (still missing profiles for the paint waste and ballasts) and I need you to review and sign them.

Please pay attention to the generation process of every profile, the constituents of the material, how the waste is going to be shipped (bucket, drum, box, pallet, etc.), and the quantity of waste that's going to be shipped. All of this information must be correct prior to us picking up the material.

Also, how is the paint waste you have generated? Is it still in liquid form, or is it solid?

Please contact me if you have any questions or concerns. If you can't scan the completed and signed copies back to me, please fax and let me know.

Thanks-

Morgan McCarley CSR/Inside sales CES Environmental, Inc. office: 713-800-7912

cell: 281-691-3296 fax: 713-748-8664

mmccarley@cesenvironmental.com

#### Jennifer Rust

From:

Jennifer Rust

Sent:

Wednesday, July 29, 2009 5:55 PM

To: Cc: 'Williams, Mike (RTM)'

Cc: Subject: Joy Baker Profiles

Attachments:

image001.jpg; Rio PRM.pdf; Rio Ballasts.xls

#### Good Afternoon

I received your signed profiles & the following can be brought in tomorrow afternoon -

• Fluorescent Light Bulbs

• Oily Filters

> hydraulic/motor oil

Oily Pads

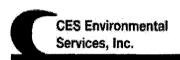
• Universal Batteries

The following profiles cannot be received until the information below is completed & signed copies received.

- Grease need state waste code
- Ballasts need signed profile (attached)
- Paint Related Material need signed profile (attached)

Thank You,

### Jenny Rust



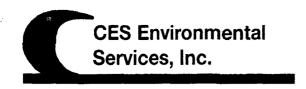
4904 Griggs Road

Houston, TX 77021 Office: (713) 676-1460

Direct: (713) 800-7907 Cell: (713) 367-8581

Fax: (713) 748-8664 <u>irust@cesenvironmental.com</u>

Visit us at http://cesenvironmental.com



## Waste Pre-Acceptance/Approval Letter

Date 7/30/2009

Dear Michael Williams

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3442

Expiration Date 7/30/2011

**Generator:** Rio Tinto Minerals **Address:** 17509 Van Rd.

Houston, TX 77049

Waste Information

Name of Waste: Oily filters TCEQ Waste Code #: Recycle

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Oily filters from basic maintenance operations

Color: Varies

**Odor:** Slight hydrocarbon

pH: Na

**Physical State:** 

Incompatibilities: Oxidizers

Safety Related Data/Special Handling:

None

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

### CES Environmental Services, Inc.

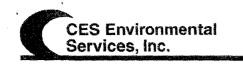
	•	CES Environmental Services, Inc.									JR Recycle Howster			
		Phone	Q Indu	676-14 //www. strial S	cesenvi olid Wi	Fax conmer ste Pe	uston, 7 2: (713) ntal.con rmit No ISWR	676-16 n	676 B		(	Zect Hi	le notiv	
SECTION 1; Gener	ator Information		<u> </u>				·			,				
Company:	RIO TINto Minera	 .ls												
Address :	17509 Van Rd.		. 8d.				. <u> </u>					··		
City, State, Zip :						*						—		
Contact:	Michael William						Title :			•				
Phone No :	(281) 272-7235						Fax:	***	31) 456-	, 781 <del>6</del>			-	
24 / HR Phone :	(201721200		•				• •••	VII.	- '				<b></b>	
J.S EPA I,D No : State I,D :	TXR050029 20609			., _		·	- _sic co	ode				•		
SECTION 2: Billing	information													
Company:	Rio Tinto Minera	ls												
Addrees :	17509 Van Rd.	*****								w		^		
City, State, Zip:				· · · · · ·		- <del>-</del> -								
Contact:	Michael William				·		Title :		• • •	• • • •		. • .	· ··· ··· —	
Phone No :	(281) 272-7235						Fax:	(28	1) 456-	7816				
BECTION 3: General Marne of Waste : Detailed Descrip Olly (Augustus)	tion of the Proce	ts st	ating W	aste:	•		-	· · · · · · · · · · · · · · · · · · ·				<u></u>	N. Arthrica and and reserv	
hysical State :	C Liquid		☐ ðlu	dge		☐ Po	wder							
,	☑ Solla		_	er Cake		□ Co	mbinatio	on						
	المراقع ريق		(_j) ( m	or Cano		00		<del>-</del> 711						
Color :		<u>.</u> .	varies		Od	or :		_		slight	nydroca	rbon		
specific Gravity (	(Water=1) :		na		De	nsity:				na		. f.	bs / gal	
laterial section					Y _≅	s	₩ No	· 1						
loes this material					_		Yes		<b>⊘</b> No					
s the Waste subje						•				Yes	<b>V</b>	No		
_			2823	2824	2833	2834	2835	2836	(_, 2841	2642	2843	2844	2851	
	2816 2819 28 2869 2873 28		2679	2691	2892	2893	2896	2899	2911	3312	4953	4959	9511	
_ayers:	<b></b> Single-f	has	() Mu	ltí-Pha	se									
Container Type :	Drum		Tote		Truck		Other	(explai	n)					
Container Size :	55		•											
Jumber Of Units		••												
Is this a USEPA ".					_	Yes onstitue	√ Norm		d hereto					
Tf "Yea". Is It: □			E000	. •										

	4:16PM					No. 53	334 P.
Characteristic for Toxic N	1etals: 🗍 0004	□ D00	05 (] <b>D006</b> [] (	D007			
	800a 🗆	☐ <b>D</b> 00	09 🗌 D010 🗍 I	0011			
Characteristics for Yoxic	Organics: D012 thu	ı D043 (ple	ease list all that apply)			*** * (5.7 )	
s this an "F" or "K" Liste	d waste or mixed w	ith one?	☐ Yes   ☑ No	· · · · · ·			
If "Yes", then please l	ist ALL applicable co	odes:				•	- ,
is this a commercial prod 861.33(e) or (f)?	luct or spill cleanup	that would	i carry a "U" or "P" was	te code under 40 CFR	( ( Y	as 🔽	No
If "Yes", then please	list ALL applicable o	odes:					
ежая State Waste Code	No:	lecycle					
roper U.S. State Waste	Code No :		Non-RCRA/Nor	ı-DOT Regulated Mat	terial	<b>.</b>	
Class: na	UN/NA:_	na	PG:	na	. ,	RQ:	na
Flash Point	На		Reactive Sulfides	Reactive Cyanide	s	Solic	ls
>200	na	-	0 mg/l	0 r	mg/l	100	%
Oll and Grease	TOC		Zinc	Copper		Nick	el
>100 mg/l	0	mg/l	00_mg/l	0 1	mg/l	400	mg/
CTION 4: Physical and Cl	nemical Data						
	COMPONENTS	TABLE		Conce	ntration		Units
				3			or %
The material /	product consists o	f the follo	wing materials	Ranges are	e accepta	ble	01 /0
The material /	product consists o oll pads/fil	***	wing materials	2	e accepta 2-10 0-98	ible	% %
	oll <del>pads</del> /fil	***	wing materials	2	2-10	ible	%
The material / ECTION 5: Safety Related I the handling of this wa ne ECTION 6: Attached Suppose st all documents, notes	oll pads/fil  Data  ste requires the us  orting Documents  data, and/or anal	illers  e of speci	al protective equipme	a 90 nt, please explain,	2-10 0-98		%
ECTION 5: Safety Related I the handling of this wa ne ECTION 6: Attached Suppo st all documents, notes	oll pads/fil pads/fil pads/fil pads/fil pads/fil pads/fil pads pata ste requires the us pating Documents state, and/or analy state, and/or analy state, and/or analy state, and/or analy state, and/or analy state, and/or analy state, and/or analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state, analy state,	 e of speci	al protective equipme	nt, please explain,	2-10 0-98	age.	% %

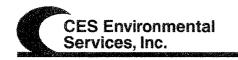
	Jul. 29. 2009 4:16PM	No. 5334	P. 4
	oaivity:		
gnit	ability:		
	ION 9: Waste Receipt Classification Under 40 CFR 437		
s thi:	s material a wastewater or wastewater sludge? 🔲 YES 💹 NO		
f'YE	S', complete this section		
∍ľ£∖	ASE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE		
Vlate	ls Subcategory: Subpart A		
	Spent electropiating baths and/or sludges		
	Metal finishing rinse water and sludges		
	Chromate wastes		
	Air pollution control blow down water and sludges		
	Spent anodizing solutions		
	Inclneration wastewaters		
	Waste Ilquid mercury		
	Cyanide-containing wastes greater than 136 mg/l		
	Waste acids and bases with or without metals		
	Cleaning, rinsing, and surface preparation solutions from electropleting or phosph		
	VIbratory deburring wastewater		
	Alkaline and acid solutions used to clean metal parts or equipment		
	•		
2 <u>3[[C</u>	Su <u>bcategory</u> : Subpart B		
	Used offs		
	Oll-water emulsions or mixtures		
	Lubricants		
	Coolants		
	Contaminated groundwater clean-up from petrolsum sources		
	Used petroleum products		
<u></u>	Oll spill clean-up		
	Bilge water		
	Rinse/wash waters from petroleum sources		
[]	Interceptor wastes		
	Off-specification fuels		
	Underground storage remediation wastes		
	Tank clean-out from petroleum or olly sources		
	Non-contact used glycols		
	Aqueous and oll mixtures from parts cleaning operations		
	Wastewater from oil bearing paint washes		
O <u>rg</u> ar	nl <u>ca Sub</u> ca <u>tegory</u> <i>Subpart C</i> Landfill leachate		
	Contaminated groundwater clean-up from non-petroleum sources		
	Solvent-bering wastes		
	Off-specification organic product		
	Still boltoms		
	Byproduct waste glycol		
	Wastewater from paint washes		

Westewater from adhesive and/or apoxles formulation Wastewater from organic chemical product operations

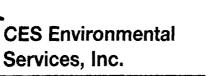
Tank clean-out from organic, non-petroleum sources	
(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste	e should be classified in the oils subcategory
(2) If the waste contains oil and grease loss than 100 mg/L, and has any of the excess of the values listed below, the waste should be classified in the ma	e pollutants listed below in concentrations in etals subcategory
Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L	
(3) If the waste contains oil and grease less than 100 mg/L, and does not have or nickel above any of the values listed above, the waste should be classic	
☐ Metals Subcatego	
Olls Subcatego	
Organics Subcategory	
SECTION 10: Additional Instruction	
If you cannot determine the correct subcategory in Section 9 and you did not for Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a conconcentrations. This will be prior to acceptance. The generator will be response	nmercial laboratory a sample to determine these
SECTION 11: Generator's Certification	
The information contained herein is based on   generator knowledge above and attached description is complete and accurate to the best of right deliberate or willful omissions of composition properties exist and that a disclosed. I certify that the materials tested are representative of all materials.	ny knowledge and ability to determine that no Il known or suspected hazards have been
Authorized Signature: Peni / Faruson  Printed Name / Title: FISE N Janager	Date: <u>7/29/09</u>
Printed Name / Title: F/SE / anger	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information :
Compliance Officer: Reflected  Date: 7-30-09 Status: Approved Rejected  Approval Number: 344	
Date: 7-30-09 Status: (Approved) Rejected	•
Approval Number: 3442	;
the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the co	



1. Base Pricing (including freight):
\$351DM
2. Contamination Limit (maximum limit before surchages apply):
3. Surcharge Pricing:
4. Special Testing Requirements:
5. Treatment and Handling Protocol:
Bulk to Oil fittu Recycler
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



7. Tests for Product	Recovered/Recycled (if app	plicable):	
			· •
8. Management for	Product Recovered/Recycle	ed (if applicable)	
			1



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# Waste Pre-Acceptance/Approval Letter

Date 7/30/2009

Dear Michael Williams

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3443

**Expiration Date** 7/30/2011

Generator: Rio Tinto Minerals
Address: 17509 Van Rd.

Houston, TX 77049

Waste Information

Name of Waste: Universal batteries

TCEQ Waste Code #: Univ

Container Type:

**Detailed Description of Process Generating Waste:** 

Removal of old batteries

Color: Varies

Odor: none

pH: Na

**Physical State:** 

Incompatibilities: None

Safety Related Data/Special Handling:

Level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

# **CES Environmental** Services, Inc.

4904 Griggs Road Phone: (713) 676-1460

Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com TCEO Industrial Solid Waste Permit No: 30948

			PA ID No					: 3094 : No: 3			•		X
SECTION 1: Gener	akas la farmentle	· ·			المنتساب								
Company:	Rio Tinto Mir		~~~										
Address ;	17509 Van R		an Rri	· >/*									
City, State, Zip:					<del>-</del> · ·								
Contact:	Michael Willi	· - · · · · · · ·					Title :		- · · · · · · · · · · · · · · · · · · ·				
hone No :	(281) 272-72	35					Fax:	128	 31) 456-				
24 / HR Phone:						_		7=-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
J.S EPA I.D No :							•						
State I.D:	20609						SIC Co	de					
	i America y III - 1 - 1	• • • • • • • • • • • • • • • • • • • •											-
BECTION 2: Billing	Information	n ref≅tare a											
Company:	Rio Tinto Min	erals	· · · · · · · · · · · · · · · · · · ·		<b></b>								
Address:	17509 Van R	d. 17509 V	an Rd.										
City, State, Zip:	Houston TX	77049				-, — <u>—</u>							·····-
Contact :	Michael Willia	eme					Title:						
Phone No:	(281) 272-72	35					Fax:	(26	31) 456-	7816			
SECTION 3: General Name of Waste :													
Detailed Descript Removal of old ba		ocess Gene					<del></del>		•				
Physical State :	Liquid	<del>j</del>	C Slu	ıdgə		[] Pov	wder						
	₩ Solld		[] FII	er Cake		Cor	mbinatio	n					
Color:			varies		Od	or:					none		
Specific Gravity (	(Water=1):		na .		Der	islty :				na	<del></del> -	<b></b>	lba / gal
Does this material	contain any tot	ial phenolic (	compound	5?	Ye:	\$	<b>⋈</b> No						
Does this material	contain any pa	ra substitute	d phenoil	compo	rsbnu		2eY	6	Ø No				
s the Weste subjec	ct to the benze	ne waste ope	ration NE	SHAP? (	40 CFR F	art 61,	Subpart	FF)	$\square$	Yөғ	V	No	
2812 2813 7	2816 2819	2821 282	2 2823	2824	2633	2834	2835	2836	2841	2842	2843	2844	2851
2861 2865 2	2873	2674 267	6 2879	2891	2892	2893	2896	2899	2911	3312	4953	4959	<b>9</b> 511
Layers :	📝 Singl	le-Phas	☐ Mı	ılti-Pha	<b>6</b>								
Container Type :	Drum	ı 🗀	Tole		Truck	O	Other	(explai	n)			<b>~~</b> -	
Container Size :													
Number Of Unite	:												
is this a USEPA "I If "Yes", then pl		•			Z) erdous Co		□ N nts Form		1 hereto				
If "Yes", is it:	] D001 [	2000	E000 []										

Off-specification organic product

Wastewater from adhesive and/or epoxles formulation

Wastewater from organic chemical product operations

( ]

Still boltoms

Byproduct waste glycol
Wastewater from paint washes

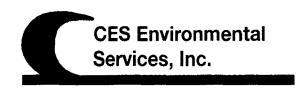
[	Tank clean-out from organic, non-petroleum sources
1)	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory
2)	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory
	Cadmlum: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L
3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.
	Metals Subcatego
	☐ Oils Şubcatego
	C Organics Subcategory
E	CYION 10: Additional Instruction
ìÌr	ou carnot determine the correct subcalegory in Section 9 and you did not furnish data for the concentration of Cadmium, building Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these centrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.
ΕC	TION 11: Generator's Certification
b d oll	information contained herein is based on [2] generator knowledge and/or [2] analytical data. I hereby cerity that the over and attached description is complete and accurate to the best of my knowledge and ability to determine that no berate or willful omissions of composition properties exist and that all known or suspected hazards have been closed. I certify that the materials tested are representative of all materials described by this document.
ĮIJ.	thorized Signature: There' Paris Date: 1/29/09
ri	nted Name / Title: ASE parage
CE	S USE ONLY (DO NOT WRITE IN THIS SPACE) Process Facility Information :
Se	mpliance Officer: Lobur Clarator
	te: 1-30-09 Status: Approved Rejected
γþ	proval Number:



1. Base Pricing (including freight):
Uad Aud - \$1.25/16 Ni-caol/Alkaline - \$1.45/16 Li-thium - \$3.50/16 Magnesium /2nc - \$4.25/16
LI-thirm - \$3,5011b
Macinesium 12mc - \$4.25/16
1-100 101.11 Divice 1.23112
2. Contamination Limit (maximum limit before surchages apply):
3. Surcharge Pricing:
4. Special Testing Requirements:
<u></u>
5. Treatment and Handling Protocol:
Cant & not for billing before blung for battery also but lecycling.
015.00
asso sie leguing.
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



7. Tests for Produc	t Recovered/Recycled (if applicabl	ie):		
			-	
	· ·			
C. Barrersomant for	- District Descripted / Described / if /	!:bla\		
8. Management io	r Product Recovered/Recycled (if a	іррпсавіе)		<del>-</del>
			•	



# Waste Pre-Acceptance/Approval Letter

Date 7/30/2009

Dear Michael Williams

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3444

**Expiration Date** 7/30/2011

Generator: Rio Tinto Minerals

Address: 17509 Van Rd.

Houston, TX 77049

Waste Information

Name of Waste: Fluoroscent light bulbs

TCEQ Waste Code #: UNIV320H

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Burned out light bulbs

Color: White Odor: none

pH: Na

**Physical State:** 

Incompatibilities: None

Safety Related Data/Special Handling:

Level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

## CES Environmental Services, Inc.

4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900



### SECTION 1: Generator Information    Jompany
Address: 17509 Van Rd. 17509 Van Rd.  City, State, Zip: Houston TX 77049  Contact: Michael Williams
City, State, Zip : Houston TX 77049
Contact : Michael Williams
Phone No: (281) 272-7235 Fax: (281) 456-7816  24 / HR Phone:  J.S EPA I.D No: TXR050029  State I.D: 20609 SIC Code  SECTION 2: Billing Information  Company: Rio Tinto Minerals Address: 17509 Van Rd. 17509 Van Rd.  City, State, Zip: Houston TX 77049  Contact: Michael Williams Title: Phone No: (281) 272-7235 Fax: (281) 456-7816  SECTION 3: General Description of the Weats Name of Waste: fluoroscent light bulbs  Detailed Description of the Process Generating Waste: purned out light bulbs  Physical State: Liquid Studge Powder
Phone No: (281) 272-7235
J.S EPA I.D No: TXR050029  State I.D: 20609 SIC Code  SECTION 2: Billing Information  Company: Rio Tinto Minerals  Address: 17509 Van Rd. 17509 Van Rd.  City, State, Zip: Houston TX 77049  Contact: Michael Williams Title:  Phone No: (281) 272-7235 Fax: (281) 456-7816  SECTION 3: General Description of the Weste  Name of Waete: fluoroscent light builbs  Detailed Description of the Process Generating Waete:  ourned out light builbs  Physical State: Liquid Studge Powder
State 1.D: 20609  SIC Code  SECTION 2: Billing Information  Company: Rio Tinto Minerals  Address: 17509 Van Rd. 17509 Van Rd.  City, State, Zip: Houston TX 77049  Contact: Michael Williams  Title:  Phone No: (281) 272-7235  Fax: (281) 456-7816  SECTION 3: General Description of the Wests  Name of Waste: fluoroscent light bulbs  Detailed Description of the Process Generating Waste;  purned out light bulbs  Physical State: Liquid Studge Powder
SECTION 2: Billing Information  Company: Rio Tinto Minerals  Address: 17509 Van Rd. 17509 Van Rd.  City, State, Zip: Houston TX 77049  Contact: Michael Williams Title:  Phone No: (281) 272-7235 Fax: (281) 456-7816  SECTION 3: General Description of the Weste  Name of Waste: fluoroscent light bulbs  Detailed Description of the Process Generating Waste;  purned out light bulbs  Physical State: Liquid Studge Powder
Company: Rio Tinto Minerals  Address: 17509 Van Rd. 17509 Van Rd.  City, State, Zip: Houston TX 77049  Contact: Michael Williams Title:  Phone No: (281) 272-7235 Fax: (281) 456-7816  SECTION 3: General Description of the Weste  Name of Waste: fluoroscent light bulbs  Detailed Description of the Process Generating Waste;  purned out light bulbs  Physical State: Liquid Studge Powder
Company: Rio Tinto Minerals  Address: 17509 Van Rd. 17509 Van Rd.  City, State, Zip: Houston TX 77049  Contact: Michael Williams Title:  Phone No: (281) 272-7235 Fax: (281) 456-7816  SECTION 3: General Description of the Weste  Name of Waste: fluoroscent light bulbs  Detailed Description of the Process Generating Waste;  purned out light bulbs  Physical State: Liquid Studge Powder
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Address: 17509 Van Rd. 17509 Van Rd.  City, State, Zip: Houston TX 77049  Contact: Michael Williams Title:  Phone No: (281) 272-7235 Fax: (281) 456-7816  SECTION 3: General Description of the Weate  Name of Waste: fluoroscent light bulbs  Detailed Description of the Process Generating Waste:  purned out light bulbs  Physical State: Liquid Studge Powder
Contact: Michael Williams Title:  Phone No: (281) 272-7235 Fax: (281) 456-7816  SECTION 3: General Description of the Wests  Name of Waste: fluoroscent light bulbs  Detailed Description of the Process Generating Waste;  purned out light bulbs  Physical State: Liquid Studge Powder
Contact: Michael Williams Title:  Phone No: (281) 272-7235 Fax: (281) 456-7816  SECTION 3: General Description of the Wests  Name of Waste: fluoroscent light bulbs  Detailed Description of the Process Generating Waste;  purned out light bulbs  Physical State: Liquid Sludge Powder
Phone No: (281) 272-7235 Fax: (281) 456-7816  SECTION 3: General Description of the Weats  Name of Waste: fluoroscent light bulbs  Detailed Description of the Process Generating Waste; purned out light bulbs  Physical State: Liquid Studge Powder
Name of Waste: fluoroscent light bulbs  Detailed Description of the Process Generating Waste;  ourned out light bulbs  Physical State: Liquid Studge Powder
Name of Waste: fluoroscent light bulbs  Detailed Description of the Process Generating Waste;  ourned out light bulbs  Physical State: Liquid Studge Powder
Detailed Description of the Process Generating Waste; ourned out light bulbs Physical State: [] Liquid [] Studge [] Powder
ourned out light bulbs  Physical State:   Liquid   Sludge   Powder
o l
Color: while Odor: none
Specific Gravity (Water=1):ne
Does this material contain any total phenolic compounds? 🔲 Yes 😾 No
Does this material contain any para substituted phenolic compounds? ΣΥΑΝ 😥 Νο
is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF)
2812 2813 2616 2619 2821 2822 2823 2824 2833 2834 2835 2836 2841 2842 2843 2844 2851
2861 2865 2869 2873 2874 2876 2879 2091 2892 2893 2896 2899 2911 3312 4953 4959 9511
Layars : 🕡 Single-Phas 🔲 Multi-Phase
Conteiner Type : 📝 Drum 🛄 Tote 🛄 Truck 🔲 Other (explain)
Container Size: 55
Number Of Units :
If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

Jul. 29. 2009	4:17PM					No. 5334	Р.	1
Characteristic for Toxic M	etals:	- <del>-</del>		0007 0011				
Characteristics for Toxic (	Organics: D012 thru (	0043 (please list a	li that apply)			•	i	
Is this an "F" or "K" Listed If "Yes", then please li			☑ No				1	
Is this a commercial production 25133(e) or (f)?	• •		'U" or "P" Wasl	e code under 40 (	CFR 🔲 Y	res 🗹 No	l	
If "Yes", then please (	ist ALL applicable cod	les:						
Texas State Waste Code	No: UNI	V320H			, , , ,	. =		
Proper U.S. State Waste	Code No :	Environment	ally hazardous	substance, solid	(flourescen	t bulbs)		
Class: 9	UN/NA:	JN3077	PG:_	III	,	RQ: na	١	
Flash Point	рН	Reactive	Sulfides	Reactive Cyan	ldes	Solids	<del></del>	
<u>na</u>	<u>na</u>		0 mg/l	0	mg/l	100	<b>%</b>	
Oll and Grease na mg/l	TOC na		nc 0 mg/l	Copper 0-10	mg/l	Nickel 0-10	mg/l	
3ECTION 4: Physical and Ch	emical Data		•					
	COMPONENTS TA	ABLE		Coi	centration	Uni	is	
The material / p	roduct consists of t		erials	Rangee	are accept	able or	_	
SECTION 5: Safety Related D f the handling of this was evel d	***************************************	of special protec	tive equipme	nt, please explain	1.	· · · · · · · · · · · · · · · · · · ·		
SECTION 6: Attached Suppo List all documents, notes 1000		is attached to th	ls form as par	t of the waste ap	proval pac	kage.		
9ECTION 7: Incompatibilities Please list all Incompatibi none								

TCLP Volatilies:

X

TCLP Semi-Volatiles :

<u>x</u>

Reactivity:

:orra	sivity:
gnita	bility: <u>x</u>
IECLI	ON 9: Waste Receipt Classification Under 40 CFR 437
s this	material a wastewater or wastewater sludge?
FYES	S', complete this section
'LEA	SE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE
lata).	s Subcategory: Subpart A
	Spent electroplating baths and/or sludges
	Metal finishing rinse water and sludges
	Chromate wastes
	Air poliulion control blow down water and sludges
	Spent anadizing solutions
$\Box$	Incineration wastewaters
	Waste liquid mercury
	Cyanide-containing wastes greater than 136 mg/l
	Waste acids and bases with or without metals
	Cleaning, rinsing, and surface preparation solutions from electroplating or phosph
	Vibratory deburring wasteweter
	Alkaline and acid solutions used to clean metal parts or equipment
ر	The same and a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains a second contains
oils S	ubcategory: Subpart B
	Used oils
	Oil-water emulsions or mixtures
	Lubricants
$\Box$	Coolants
	Contaminated groundwater clean-up from petroleum sources
	Used petroleum products
	Oil spill clean-up
	Bilge water
	Rinse/wash waters from petroleum sources
	Interceptor wastes
	Off-specification fuels
	Underground storage remediation wastes
	Tank clean-out from petroleum or oily sources
	Non-contact used glycols
	Aqueous and oil mixtures from parts cleaning operations
	Wastewater from oil bearing paint washes
	<u>)cs Subcategory</u> Subpart C Landfill leachate
	Contaminated groundwater clean-up from non-petroleum sources
	Solvent-bering wastes
(_)	Off-specification organic product
	Still bottoms
	Byproduct waste glycol
	Wastewater from paint washes
	Wastewater from adhesive and/or epoxies formulation
["]	Wastewater from organic chemical product operations

Process Facility Information:

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer:



1. Base Pricing (including freight):	
4'-\$1,25 leach	Shielded Flooresant - F1.90/Back Ubend / Circulan - #1.35/1ach Urone - #1.80/10ach +110- #1.70/each
5'-\$1.50 leach	Ubend Circular - #1351 lacer
5'-#1.50 leach Compacts-\$1.25 lach	140 \$170/each
2. Contamination Limit (maximum limit before surch	
3. Surcharge Pricing:	
3. Surcharge Pricing.	
4. Special Testing Requirements:	
5. Treatment and Handling Protocol:	
BIX to Ugnt recyclic	after Noting Court for
accounting	
6. Treated Wastewater Discharge Subcategory:	
☐ Subcategory A ☐ Subcategory B	☐ Subcategory C



7. Tests for Product i	Recovered/Recycled (if applicable):	
8. Management for F	Product Recovered/Recycled (if applicable)	
8. Management for F	Product Recovered/Recycled (if applicable)	
8. Management for P	Product Recovered/Recycled (if applicable)	
8. Management for F	Product Recovered/Recycled (if applicable)	
8. Management for F	Product Recovered/Recycled (if applicable)	

All need signed.

We or

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#### Jennifer Rust

From:

Jennifer Rust

Sent:

Thursday, July 23, 2009 2:33 PM

To:

'Williams, Mike (RTM)'

Cc:

Joy Baker

Subject:

RE: Rio Tinto profiles to CES

Attachments:

image001.jpg; image002.jpg; Rio Tinto Filters.xls; Rio Ballasts.xls; 07-23-2009(8).pdf

Good Afternoon.

Please email or fax the profiles you received from Morgan on 7/21 with the 4th page signed.

Inoticed that your EPA ID appears about 3 digits short (TXR050029)— can you confirm it is correct?

The Grease profile sent on 7/2I needs a state waste code (page 2).

Please review, sign, date & return the attached profiles for the ballasts & oily filters (we separated them from the absorbent pads).

If the paint drums contain no liquid and are just empty cans / paint related material – please sign the attached profile for that as well. If the paint is liquid please let me know so I can send you the appropriate profile.

Once I receive all documents back signed we can schedule the delivery!

Sorry for all the questions! Give me a call if you need any assistance or have any concerns — I will be more than happy to help!

Thank You,

#### Jenny Rust



4904 Griggs Road Houston, TX 77021 Office: (713) 676-1460 Direct: (713) 800-7907

Cell: (713) 367-8581 Fax: (713) 748-8664

jrust@cesenvironmental.com

Visit us at http://cesenvironmental.com

From: Williams, Mike (RTM) [mailto:Mike.Williams@riotinto.com]

Sent: Thursday, July 23, 2009 9:27 AM

To: Jennifer Rust

Subject: FW: Rio Tinto profiles to CES

From: Morgan McCarley [mailto:mmccarley@cesenvironmental.com]

**Sent:** Tuesday, July 21, 2009 3:06 PM

To: Williams, Mike (RTM)

Cc: Joy Baker

Subject: Rio Tinto profiles to CES

#### Mike-

I'm your customer service rep and I have a few questions about the waste you're wanting us to pick up. I have attached the profiles (still missing profiles for the paint waste and ballasts) and I need you to review and sign them.

Please pay attention to the generation process of every profile, the constituents of the material, how the waste is going to be shipped (bucket, drum, box, pallet, etc.), and the quantity of waste that's going to be shipped. All of this information must be correct prior to us picking up the material.

Also, how is the paint waste you have generated? Is it still in liquid form, or is it solid?

Please contact me if you have any questions or concerns. If you can't scan the completed and signed copies back to me, please fax and let me know.

Thanks-

Morgan McCarley CSR/Inside sales CES Environmental, Inc. office: 713-800-7912

cell: 281-691-3296 fax: 713-748-8664

mmccarley@cesenvironmental.com

call

LUZENAC HOUSTON 17509 Van Road Houston, TX 77049 Phone # 281-272-7200 Fax # 281-456-7816

# **FAX**

To: Jennifer Rust (CES Environmental Service)

From: Mike Williams

Date: 07/29/09

Pages: 17

**Rio Tinto Profiles 16 Pages** 

# PCI

# **GENERATOR'S WASTE PROFILE SHEET**



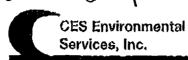
COMPLETE - PRINT - SIGN - FAX (219) 397-6411

A. GENERATOR INFORMATION ————————————————————————————————————
Generator Name RID TINTO Minerals  Facility Address 17509 Van Rd. City Houston State Jx Zip 77049  Customer Name HICNAEI WILLIAMS  Customer Phone 281-272-7235 Customer FAX 281-4156-7816  Generator USEPA/Federal ID# Tx ROD 50029  Is the Generator a "Conditionally Exempt Small Quantity Generator"? Oyes Ono  Generator's S.I.C. Code (4 Digit)
BILLING INFORMATION (Check HERE if billing information is the same as above information)  Billing Name CES GNUTUTION SETVICES, INC.  Billing Address UCIDLY GNIGGS City HOUSTON State TX Zip TIDZI  Billing Contact Name JUCINITY THORNAS  Billing Phone 115-1614 ICION Billing FAX 115-10710 114714  PCI Sales Rep.
Name of the Waste + Curity Rule (All Malukia)  Original Process Generating Waste Provided? Yes No Is a MSDS attached? Yes No Is there any analytical attached? Yes No
Color
Constituents  Min% Max% Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Constituents  Min% Max%  Min% Max%  Min% Max%  Min% Max%  Min% Max%  Min

E OTHER WASTE STREAM INFORMATION	THE RESERVE THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PA		
Is this waste a "USED OIL" per 40CFR PART 279?	Yes ()	No (3)	
If "Yes", does the total halogen content exceed 1,000 ppm?	Yes ()	No O	
If "Yes", can you identify the "Chlorinated Constituent" present in the oil?	Yes ()	No ()	
If "Yes", can you rebut the presumption that this material is a "Hazardous Waste"?	? Yes 🔿	No (	
Does the Waste have any of the following characteristics? (Please select all that a	(vlaaı		
Oxidizer Organic Peroxide OWater Reactive Air Reactive Radioactive Infectious OPathogen OCarcinogen Explosive OShock Sensitive OUndergo Hazardous Polymerization Does the Waste contain any of the following?	O Pyropho O Etiologio O Cylinde	cal OAeroso	
	LESS THAN	or ACTUAL	
PCB'S 🚫 / <50ppm O ppm Sulfides 🗸	<50ppm 🔘	pp	pm
Cyanides S <50ppm ppm Phenolics S	<50ppm 🔘	, PF	pm
Does the waste represented by this profile contain benzene? Yes	) No	S	
If "Yes", please list concentration in _ppm.			1
Is the Waste subject to the benzene waste operations NESHAP? (40CFR Part 61, S Answer "Yes" if your waste contains benzene and if the SIC code from your facility	•	~	/
		2843 2844 2851 4953 4959 9511	
Is the Waste subject to RCRA Subpart CC controls? (40 CFR 265 SUBPART CC)  If "No", does the Waste meet the organic LDR exemption for UHC'S? (40 CFR 268.4)		'es○ No♂ 'es○ No♂/	
If "No", does the Waste contain <500ppmw volatile organic(VO)? (40 CFR 265 SU	·	res No O	
Does the Waste contain any Class I or Class II ozone-depleting substances?	·	es O No O	,
If PCB'S are present, is the waste regulated by TSCA per 40 CFR 761?		res O No S	
F. SHIPPING INFORMATION:			
Method of Shipment			
Bulk Liquid(> 500 Gallons) Bulk Solids(roll-off box, vacuum box, etc)	Lai	b Pack	
Cubic Yard Boxes Totes (Please specify size)			
Drums (Select size) Select 55 DMOther (Please specify)			
Shipping Frequency 55M			
Number of Units Month Quarter Year	Other		
G. E.C.R.A. CHARACTERIZATION:			
Is this a USEPA "Hazardous Waste" per 40CFR 261.3?  Yes No W	If "No", Please	skip to section H	٦.
Is this a "Universal Waste" per 40CFR part 273?  Yes No O			
Is this a "Characteristic Waste"?			
If Yes, 1s it.	3 Reactive		
Characteristic for Toxic Metals: D035	~		
O D004 O D005 O D006 O D007 O D008 O D00	9 <b>O</b> D010	O D011	

	N: (Cont.)		<del>,</del>	
Is this an "F" or "K" Listed waste		Yes 🕳	<i>(</i>	
If "Yes", Please list all applicable	e code(s) from 40CFR261.31 a		F003, F0	7776
Is this a commercial chemical p	roduct or spill cleanup that w	ould carry a "U" or "P"	000/11	203
waste code under 40CFR 261.		No O		
If "Yes", Please list all applicable				
Is this a state regulated waste?		d		
If "Yes", Please list all codes.	Napr	In hile on		
		UNIVERSAL		
H. DOT SHIPPING INFORMATIO				
Is this a U.S. Dept. of Transporta	ation (USDOT) Hazardous Mat	erial? Yes	♥ No ()	170
Proper Shipping Name per 490  "Reportable Quantity" (if any)	FR 172.101 Hazardous Materia	als Table: Waste Po	unt Wateri	16 3 170 E
risportable dualities (if ally)	103		•	2
Hazard Class or Division No.	UN/NA #	Packing Group		
Is this a "Poison Inhalation Haza	ard"? Yes 💍	No D		
If "Yes", Please indicate Hazard	Zone Zone A Z	Zone B Zone C	Zone D	Other
List two primary hazardous con	stituents: 1	2	f-commontant	hear sead
I. GENERATOR CERTIFICATION:				
I hereby certify that the above a	and accorded description is de	implete and accurate	to the pear of th	y
knowledge and ability. No delik all known or suspected hazards of the waste material described	s have been disclosed. I also c	ertify that the obtaine	d sample is repr	esentative
all known or suspected hazards	s have been disclosed. I also c	ertify that the obtaine	d sample is repr	esentative
all known or suspected hazards of the waste material described	s have been disclosed. I also c	certify that the obtaine on and consent to mak	ed sample is repr se amendments a	esentative
all known or suspected hazards of the waste material described Name	s have been disclosed. I also o	ertify that the obtaine on and consent to mak	ed sample is repr se amendments a	esentative and corrections.
all known or suspected hazards of the waste material described Name Signature	s have been disclosed. I also o	certify that the obtaine on and consent to mak Title	d sample is reprice amendments a	esentative and corrections.
all known or suspected hazards of the waste material described Name  Signature  THIS SPACE	s have been disclosed. I also of above and give PCI permission above and give PCI permission above and give PCI permission above and give PCI permission above and give PCI permission above and give PCI permission above and give PCI permission above and give PCI permission above and give PCI permission above and give PCI permission above and give PCI permission above and give PCI permission above and give PCI permission above and give PCI permission above and give PCI permission above and give PCI permission above and give PCI permission above and give PCI permission above and give PCI permission above and give PCI permission above and give PCI permission above and give PCI permission above and give PCI permission above and give PCI permission above and give PCI permission above and give PCI permission above above and give PCI permission above above and give PCI permission above above and give PCI permission above above above above above above and give PCI permission above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above above abo	certify that the obtaine on and consent to mak  Title  Par New  VALS DEPARTM	d sample is reprive amendments a	esentative and corrections.
all known or suspected hazards of the waste material described Name  Signature  THIS SPACE	s have been disclosed. I also of above and give PCI permission	certify that the obtaine on and consent to mak  Title  Par New  VALS DEPARTM	d sample is reprive amendments a	esentative and corrections.
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4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

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SECTION 1: Genera	ntor Information		· · ·	·			
Company:	Rio Tinto Minerals						
Address :	17509 Van Rd. 1750	9 Van Rd.					,,,
Clty, State, Zip :	Houston TX 77049						· <del></del> -
Contact :	Michael Williams			Title :			
Phone No :	(281) 272-7235			Fax:	(281) 456-7816		
4 / HR Phone :							
J.S EPA I.D No :	TXR050029						
State I.D :	20609			SIC Code	na		_
ECTION 2: Billing	Information						
Company:	Rio Tinto Minerals						
\ddress:	17509 Van Rd. 1750	9 Van Rd.			~.·		
City, State, Zip :	Houston TX 77049						
Contact :	Michael Williams			_ Title :			
Phone No :	(281) 272-7235			Fax:	(281) 456-7816		
ECTION 3: General	ol Description of the Wi	asto	<del></del>		······································		
Detailed Descript	ion of the Process C	Senerating Waste:					
)sed and unused	grease from greasing	equipment					
hysical State:	🖺 Liquid	🖺 Sludge	<u> </u>	owder			
	<b>☑</b> Solid	☐ Filter Cal	«a 🛄 C	ombination			
Color :	<b></b> .	dark	Odor:		<del></del>	none	
Specific Gravity (	Water≔1) :	1	Density	;	8	1	bs / gal
	contain any total pheno	olle compounds?	.— ☐ Yes	<b>☑</b> No			
	contain any para subst		w <del>-</del>	Yes	<b>☑</b> No		
s the Waste subjec	ot to the benzene waste	operation NESHAP	? (40 CFR Part 0	i, Subpart FF)	esY 🗀	☑ No	,
	1816 2819 2821	2022 2623 2824			36 2841 2842	2843 2844	2851
2661 2865 2	2869 2873 2874	2876 2879 2893	1 2892 Z893	2096 28	199 2911 3312	4953 4959	<del>9</del> 511
_Byers :	☑ Single-Phas	🗍 Multi-Pf	185e				
Container Type:	Drum	Tote 🗋	Truck [	Other (exp	plain)		
Container Size :	55						
Number Of Units							
	Haxardous Waste" pel ease complete, sign and		☐ <b>Yes</b> lazardous Constilt	☑ No leats Form atta	iched hereto		
		_	IOZUI OOUJ CONSUL	icha i omi ottu	ALIAN LIGITA		
มศ "Yes", Is it: 📋	☐ D001 ☐ D002	D003					

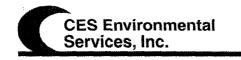
Jul. 29. 2009	4:16PM					No. 5	5334	Ρ.
Characteristic for Toxic M	etals: 🔲 D004	[]] D005	□ D006	( <u>)</u>	007			
	D008	□ D009	□ po10	ם 🗀				
Characteristics for Toxic (	Organics: D012 thru D	0043 (please	list all that a	pply)		t thereas and Maker		
Is this an "F" or "K" Listed If "Yee", then please li			] Yes (	<b>⊘</b> No		···		
Is this a commercial produ 261.33(e) or (f)?	uct or spill cleanup th	at would car	rry a "U" or "	P" wast	e code under 40 CFR	Yes [	 No	
If "Yes", then please i	lst ALL applicable cod	les:					<u></u> ,	
lexes State Waste Code	No :							
Proper U.S. State Waste (				/Non D	OT regulated waste grease	3		
Class: na	UN/NA :	na		PG:	ne	RQ:	ne	
Flash Point	На	Rea	active Sulfid	es	Reactive Cyanides	Soll	ab	
>200	4-10		0	mg/l	0 mg/l	0	)	%
Oil and Grease	TOC		Zinc	_	Copper	Nicl	cel	
>1500 mg/l		mg/l	0	mg/l	0 mg/l	0		ng/l
CTION 4: Physical and Ch	emical Data	<u>.</u>						
	COMPONENTS T		-		Concentrati		Units	7
The material / y	roduct consists of t	the followin	g materials		Ranges are acce	ptable	or %	_
ECTION 5: Safety Related C	Data		<u> </u>		****	: A:Z	<del></del>	
f the handling of this was a	ste requires the use	of special p	orotective eq	ulpmer	ıt, please explain.			
SECTION 6: Attached Suppo Ist all documents, notes Jenerator (an ou	, data, and/or analys	sis attached	to this form	as par	t of the waste approval p	ackage.		
ECTION 7: Incompatibilitie Please list all Incompatib la		-						
ECTION 6: Generator's Kno			los, listed be	elow, W	AS NOT PERFORMED b	ased upon tł	10	
ollowing generators kno				•				
CLP Metals :	釆							
GLP Volatilles :	x							
CLP 9emi-Volatiles :	X							
Reactivity :	X							

	Jul. 29. 2009	4:16PM
~ ******	د بنگار داد د	
	sivity :	X
gnica	ibility:	X
113001	Chi A. Minaia Basalat C	the office Man 14 Aug 40 CMD 467
		lassification Under 40 CFR 437
s this	material a wastewate	er or wastewater sludge?
f YES	S', complete this secti	on ·
PLEA	SE CHECK THE APP	PROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE
√latal	s Subcategory: Sub	part A
[]	Spent electroplating	baths and/or sludges
	Metal finishing rinse	water and sludges
	Chromate wastes	
(7)	Air pollution control b	olow down water and sludges
	Spent anodizing solu	
	Incineration wastewa	
	Waste fiquid mercun	
	•	vastes greater than 130 mg/l
		ses with or without metals
	· ·	d surface preparation solutions from electroplating or phosph
	Vibratory deburring v	
	Vikelille and ecto 201	utions used to clean metal parts or equipment
Tile 9	ubcategory: Sub	narf B
	Used olls	puit 2
	Oll-water emulsions	or mixtures
	Lubricants	
	Coolants	
	Contaminated groun	dwater clean-up from petroleum sources
	Used petroleum prod	ducts .
$\Box$	Oli spiil clean-up	
	Bilge water	
		rom petroleum sources
	Interceptor wastes Off-specification fuel	•
	•	e remediation wastes
		petroleum or oily sources
	Non-contact used gly	
	= -	tures from parts cleaning operations
	•	bearing paint washes
<u> Organ</u>	nics Subcategory Su	ıbpərt C
	Landfill leachate	
	-	dwater clean-up from non-petroleum sources
	Solvent-bering waste	
[_]	Off-specification orga	anic product
	Still boltoms	col
	Byproduct waste gly Wastewater from pa	
[]		hesive and/or epoxies formulation
LI	TENDED HATCH HOTEL DIE	Here and a share a series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the series and the se

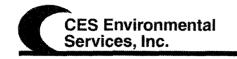
Wastewater from organic chemical product operations

No. 5334

:	Tank clean-out from organic, πon-petroleum sources
1)	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory
2}	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory
	Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L
3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.
	Metals Subcatego
	☐ Oile Subcatego
	Organics Subcategory
E	CTION 10: Additional Instruction
hr on	cou cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, compare, Nickel, and Oll and Grease, CES will send offsite to a commercial laboratory a sample to determine these acentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.  CTION 11: Generator's Certification
bc eli	Information contained herein is based on  generator knowledge and/or analytical data. I hereby cerity that the over and attached description is complete and accurate to the best of my knowledge and ability to determine that no liberate or willful omissions of composition properties exist and that all known or suspected hazards have been closed. I certify that the materials tested are representative of all materials described by this document.
Au	thorized Signature Sene Harriso Date: 7/25/29  Inted Name / Title: HSE Manager
771	nted Name / Title: /45E // Ymagli)
	S USE ONLY (DO NOT WRITE IN THIS SPACE)  Process Facility Information:
Cc	ompliance Officer:
Dz	ste: Statue: Approved Rejected
AF	proval Number:
	J



1. Base Pricing (including freight):
#55 DM
2. Contamination Limit (maximum limit before surchages apply):
3. Surcharge Pricing:
4. Special Testing Requirements:
5. Treatment and Handling Protocol:
Bulk to Class 1 box
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory R ☐ Subcategory C



7. Tests for Produc	t Recovered/Recy	cled (if applicable	e):		
i					
	·			_	
8. Management for	· Product Recover	ed/Recycled (if a	pplicable)		



CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
SECTION 1: Generator Information	
Company: Rio Tinto Minerals	
Address: 17509 Van Rd.	
City: Houston State:	TX Zip: 77049
Contact: Micheal Williams	Title:
Phone Number: 281-272-7235	Fax Number: 281-456-7816
<b>24/hr Phone Number:</b> 713-557-4990  US EPA ID No: TXR050029	_
· · · · · · · · · · · · · · · · · · ·	9 SIC Code:
SECTION 2: Billing Information - Same as Above Company: Address:	
City: State:	Zip:
Contact:	Title:
Phone Number:	Fax Number:
SECTION 3: General Description of the Waste	
Name of Waste: Non-PCB Light Ballasts	
Detailed Description of Process Generating Waste:	
Unused non-working fluorescent bulbs	
Physical State: Liquid Sludge Solid Filter Cake	Powder Combination
Color: Varies	Odor: None
Specific Gravity (water=1): N/A	Density: N/A lbs/gal
Does this material contain any total phenolic compounds?	☐ Yes ✓ No
Does this material contain any para substituted phenolic comp	pounds? Yes ✓ No
Is the Waste subject to the benzene waste operation NESHAP? Answer "Yes" if your waste contains benzene AND if the SIC cod	de from your facility is one of the following:
2812 2813 2816 2819 2821	
2835 2836 2841 2842 2843	
2873 2874 2876 2879 2891	1 2892 2893 2896 2899 2911
3312 4953 4959 9511	
Layers: Single-phase Multi-phase	
Container Type:	Other (explain)
Frequency: $\square$ Weekly $\boxdot$ Monthly $\square$ Yearly $\square$ One-T	îme

Quantity: 10

Is this a USEPA "Hazard if "Yes", then please co				Yes	_	No ched hereto		
If "Yes", Is it:		☐ D004 ☐ D010	D002 (Corr D005 D011	☐ D006	] D003 (Read 5		□ D009	
Is this an "F" or "K" List If "Yes", then please I			?	☐ Yes	·	No		
Is this a commercial pro 40 CFR 261.33(e) or (f)? If "Yes", then please I		□ Ye	<u>-</u>	No	aste code un	der		
Texas State Waste Code	e Number:		RECYCLE		<u></u>			
Proper US DOT Shipping		on-hazardo		gulated materi	al (non-pcb l	oallasts)		
Class:	_UN/NA: _		PG:	<del> </del>	_RQ:			
Flash Point	рН		Reaction	ve Sulfides	Reactive	Cyanides	Sol	ids
N/A	N/A		N/A	mg/l	N/A	mg/l	100	%
Oil & Grease	тос			Zinc Copper		Nic	kei	
N/A <u>mg/l</u>	N/A	mg/i	N/A	mg/l	N/A	mg/l	N/A	<u>mg/l</u>
-			1975	<u>arz</u>			.,,	
SECTION 4: Physical and				· · · · · · · · · · · · · · · · · · ·			,	
СО	MPONENTS TABL	E			CONCENT	RATOIN		UNITS
The waste con	MPONENTS TABL sists of the follow	E ing materia				RATOIN acceptable		
The waste con	MPONENTS TABL	E ing materia			CONCENT Ranges are a	RATOIN acceptable		UNITS or %
The waste con	MPONENTS TABL sists of the follow	E ing materia			CONCENT Ranges are a	RATOIN acceptable		UNITS or %
The waste con	MPONENTS TABL sists of the follow	E ing materia			CONCENT Ranges are a	RATOIN acceptable		UNITS or %
The waste con	MPONENTS TABL sists of the follow	E ing materia			CONCENT Ranges are a	RATOIN acceptable		UNITS or %
The waste con	MPONENTS TABL sists of the follow	E ing materia			CONCENT Ranges are a	RATOIN acceptable		UNITS or %
The waste con	MPONENTS TABL sists of the follow	E ing materia			CONCENT Ranges are a	RATOIN acceptable		UNITS or %
The waste con	MPONENTS TABL sists of the follow	E ing materia			CONCENT Ranges are a	RATOIN acceptable		UNITS or %
The waste con	MPONENTS TABL sists of the follow	E ing materia			CONCENT Ranges are a	RATOIN acceptable		UNITS or %
The waste con	MPONENTS TABL sists of the follow	E ing materia			CONCENT Ranges are a	RATOIN acceptable		UNITS or %
The waste con	MPONENTS TABL sists of the follow	E ing materia			CONCENT Ranges are a	RATOIN acceptable		UNITS or %
The waste con	MPONENTS TABL sists of the follow	E ing materia			CONCENT Ranges are a	RATOIN acceptable		UNITS or %
The waste con	MPONENTS TABL sists of the follow	E ing materia			CONCENT Ranges are a	RATOIN acceptable		UNITS or %
The waste con	MPONENTS TABL sists of the follow	E ing materia			CONCENT Ranges are a	RATOIN acceptable		UNITS or %
The waste con	MPONENTS TABL sists of the follow	E ing materia			CONCENT Ranges are a	RATOIN acceptable		UNITS or %
The waste con	MPONENTS TABL sists of the follow	E ing materia			CONCENT Ranges are a	RATOIN acceptable		UNITS or %

	Safety Relat		nacial protective equipme	ant places evaluin	
Level D	ng of this wa	ste requires the use of s	pecial protective equipme	ent, please explain.	
Level D			,		<del></del>
	<u>,</u>	<del></del>	<del> </del>		<del></del>
		pporting Documents	taraha dan Abis Camaran		
			tached to this form as part	t of the waste	
approval pad	ckage.	None			
SECTION 7:	Incompatibi	lities			
Please list Al	LL incompati	bilities (if any):			
None	<u></u>				
· · · · · · · · · · · · · · · · · · ·				_ <del></del>	
CECTION O.	Comprehens	Vanuadas Dasumanta	1:		
		Knowledge Documental		AC NOT DEPENDENTED	
			cteristics, listed below, W.	AS NOT PERFORMED	
based upon	the following	g generator knowledge:			
TCLP Metals	•	BRL			
TCLP Volatile		BRL			
TCLP Semi-V		BRL			
	Oldfiles.				
Reactivity:		Non-Reactive	<del></del>	<del></del>	
Corrosivity:		Non-Corrosive			
Ignitability:		>200 F		- <del></del>	
SECTION O. V	Vasta Pacaint	Classification Under 10 CE	D 127 (Ortaining to Org. Tros	atment Requirements for Centralized Waste Tr	roatmont
Facilities)	vaste neceipt	Classification onder 40 CF	K 437 (Fitalining to Fie-fiea	ittient Requirements for Centralized Waste 11	eatinent
racintics)	Is this materi	al a wastewater or wastew	ater sludge?	☐ YES ✓ NO	
		omplete this section.			
	DI FACE CUEC	V TUE ADDOODDIATE DOV	IF NO ADDOODDIATE CATEC	CORV. CO TO THE NEW DAGE	
	PLEASE CHEC	K THE APPROPRIATE BUX.	IF NO APPROPRIATE CATEG	GORY, GO TO THE NEXT PAGE.	
Metals Subca	tegory : Subj	oart A			
	Spent electro	plating baths and/or sludg	es		
	Metal finishir	ng rinse water and sludges			
닏	Chromate wa				
		control blow down water a	nd sludges		
_	Spent anodizing Incineration v	-			
=	Waste liquid				
		aining wastes greater than	136 mg/l		
		and bases with or without r			
	Cleaning, rins	ing, and surface preparatio	on solutions from electroplat	ting or phosphating operations	
		ourring wastewater			
	Alkaline and a	acid solutions used to clear	n metal parts or equipment		
Oils Subcateg	ory : Subpart	· <b>B</b>			
	Used oils				
=		ulsions or mixtures			
=	Lubricants				
=	Coolants	d groundwater alson f	om notroloum sources		
	Contaminated Used petroled	d groundwater clean-up fro um products	om petroleum sources		
	Oil spill clean	•			
	Bilge water				
_	-	aters from petroleum sour	rces		

	Interceptor wastes
	Off-specification fuels
<u> </u>	Underground storage remediation waste
يـــا	Tank clean-out from petroleum or oily sources
<u></u>	Non-contact used glycols
-	Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
	wastewater nom on bearing paint wasnes
Organics Sub	category : Subpart C
	Landfill leachate
	Contaminated groundwater clean-up from non-petroleum sources
	Solvent-bearing wastes
	Off-specification organic product
	Still bottoms
	Byproduct waste glycol
	Wastewater from paint washes
<u> </u>	Wastewater from adhesives and/or epoxies formulation
닏	Wastewater from organic chemical product operations
	Tank clean-out from organic, non-petroleum sources
/1\	
(1)	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
	The trade contains on and B. case at or in excess of 200 mg/s, the trade should be endomed in the one subsection,
(2)	
• •	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in
	excess of the values listed below, the waste should be classified in the metals subcategory.
	Cadmium: 0.2 mg/L
	Chromium: 8.9 mg/L
	Copper: 4.9 mg/L
	Nickel: 37.5 mg/L
	Nicker: 57.5 mg/L
(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.  Metals Subcategory  Oils Subcategory Organics Subcategory
SECTION 10	Additional Instructions
If you cannot	determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium,
Copper, Nicke	el, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This to acceptance. The generator will be responsible for the cost of the analysis.
SECTION 11	: Generator's Certification
	tion contained herein is based on
•	tify that the above and attached description is complete and accurate to the best of
•	ge and ability to determine that no deliberate or willful omissions of compostion
properties e	xist and that all known or suspected hazards have been disclosed. I certify that the
materials tes	sted are representative of all materials described by this document.
Authorized S	Signature:Date:Date:
Printed Nam	ne/Title:
CES USE ONI	Y (DO NOT WRITE IN THIS SPACE)
Compliance	Officer:
Date:	Approved Rejected
Approval Nu	
-	



1. Base Pricing (including freight):
NON-PCB-\$1.15/16
2. Contamination Limit (maximum limit before surchages apply):
3. Surcharge Pricing:
4. Special Testing Requirements:
5. Treatment and Handling Protocol:
Record the total number received and consolidate with UNIV waste; send to Environmental Lamp Recyclers
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



# PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

. Tests for Product	Recovered/Recycled	d (if applicable):			
		<del></del> -			
. Management for	Product Recovered/	Recycled (if application	able)		<del></del>
. Management for	Product Recovered/	Recycled (if application	abl	<u>e)</u>	e)

- Tobal Cain (Port Arthur) Unused Motor Oil

# **CES Environmental Services, Inc.**

CONFIDENTIAL

**Profit & Loss Sheet** 

CONFIDENTIAL

PSP12-10-48803-WY.142	Information		Salesperson:	Mutt	bounds		
Name: Thal-Cain  Contact: Cade Deno  Address:  Phone: 409-940-9273  Fax: Cade Temains Senies Com			Assigned: Y Unassigned: x  Folder 1.D.# Thou Cain UT bal (UIN-Polyment)  Job Contact: Cade Dano  Phone: SAMS  Fax:				
P.O Required: City of Houston: Base Oils Black Oils	Y: x Y: Light Ends	N: x Glycols Job	4-hour l Emulsion Oils (> Estimate	i i de la companya da la companya da la companya da la companya da la companya da la companya da la companya d	Y: x Y: x nulsion Oils (50%-7	N: N: '0% oil)	
Management 11 good bade	of liber	Vendor A C&S	Profile #	CESC	Set Custom  \$\int\{\bar{\partial}\} \\ \lambda \]	er Charge	
QA/QC		stomer Special	Request/Requir	ement			

CONFIDENTIAL



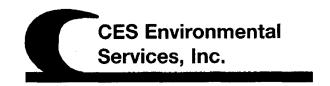
CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948				30900	-	24 Pho	nvironmenta 20 S. Gulfwa one (713) 670 Number: TXR	y Dr., I 6-1460	Port Arthur Fax: (713	, TX 77641	D .	8585	
SECTION 1:	Generator	Informati	on										
Company:	Tubal-Cair		<u></u>										
Address:	8737 Old									<del></del>			
City:	Port Arthu	ır			State:	TX		Zip:					77642
Contact:	Cade Duri	2			=	Title:		- ·					
Phone Num	ber:	409-96	0-9273			- Fax Numl	ber:	Cade@TCI	Marine	eServices.c	om		
24/hr Phone	e Number:	409-96	0-9273	· -		_		7			· · · · · ·		
US EPA ID N	lo:	N/A				_							
State ID No	:	N/A				SIC Code:							
SECTION 2: Company: Address:	Billing Info		□ <u>s</u>	ame as /	<u>Above</u>								
City:					State:			Zip:					
Contact:					-	Title:		-					
Phone Num	ber:					Fax Numb	ber:						
Name of Wa Detailed De Lube Oil Hee	aste: scription o	Lube O	il Generating										
Physical Sta	te: 🗸	Liquid Solid			Sludge Filter Cake			Powder Combinati	on				
Color:	Brown to I	olack				Odor:		hydrocarb	on				
Specific Grav	vity (water	=1):	.99	-1				Density:		8.34 lbs/	gal		
Does this ma	aterial con	ain any to	tal phenol	ic compo	ounds?		Yes	V	No				
Does this ma	aterial con	ain any pa	ara substit	uted phe	enolic comp	ounds?			Yes	✓ No			
Is the Waste	subject to	the benze	ene waste	operatio	n NESHAP?	(40 CFR Pa	art 6	1, Subpart	FF)		Yes	<b>y</b>	No
Answer "Yes	" if your wa	aste conta	ins benzen	e <b>AND</b> if	the SIC code	e from you	ır fac	cility is one	of the	following:			
2812	281	.3	2816	2819	2821	2	822	2823		2824	2833		2834
2835	283		2841	2842	2843	2	844	2851		2861	2865		2869
2873	287		2876	2879	2891	2	892	2893		2896	2899		2911
3312	495	3	4959	9511									
Layers:	☐ Siı	ngle-phase	· /	Multi-	phase								
Container Ty	/pe:	Drum	☐ Tota	e 🗸	Truck 🗌	Other (exp	plain	)					
Frequency:	☐ Weekl	у 🗹 Мо	nthly 🔲	Yearly	One-Ti	me							

Quantity: 30K Gallons

ir res , then p			er 40CFR 261.3 d date the Unde		☐ Ye rdous Constitue		] No ached hereto		
If "Yes", Is it: Characteristic fo		D001 (Ignita letals:	ble)	= -	☐ D00	] D003 (Rea 6 □ D007		□ D009	
Characteristic fo	or Toxic O	rganics: D01	2 thru D043 (p	olease list al	I that apply)				
Is this an "F" or If "Yes", then				?	☐ Ye	s 🗸	] No		
Is this a comme 40 CFR 261.33(e If "Yes", then	e) or (f)?		Y	_	a "U" or "P" w No	aste code u	nder		
Texas State Was	ste Code I	Number:		RECYCLE			_		
Proper US DOT	Shipping I	Name:	Recyclable H	Hydrocarbo	n & Water Mix	ture			
Class: N/A		UN/NA:	N/A	PG:	N/A	RQ:	N/A		
						<del>-</del>			
Flash Poi	int		oH	Reacti	ve Sulfides	Reactive	Cyanides	Sol	ids
>150		5	5-9	BRL	mg/l	BRL	mg/l	0-1	%
Oil & Grea >1500			oc		Zinc	Copper		Nic	kel
	mg/l_	>1500	mg/l	N/A	<u>mg/l</u>	N/A	mg/l	N/A	mg/l
SECTION 4: Phys	sical and (	Chemical Dat	a	N/A	<u>mg/l</u>			N/A	
	rsical and (	Chemical Dat	a ABLE		<u>mg/l</u>	CONCEN	TRATOIN	N/A	UNITS
	rsical and (	Chemical Dat	a		mg/l		TRATOIN acceptable	N/A	
	rsical and (	Chemical Dat IPONENTS TA	a ABLE		mg/l	CONCEN Ranges are 90-	TRATOIN acceptable	N/A	UNITS
	rsical and (	Chemical Dat IPONENTS TA sts of the foll Lube Oil	a ABLE		mg/l	CONCEN Ranges are 90-	TRATOIN acceptable 100	N/A	UNITS or % %
	rsical and (	Chemical Dat IPONENTS TA sts of the foll Lube Oil	a ABLE		mg/l	CONCEN Ranges are 90-	TRATOIN acceptable 100	N/A	UNITS or % %
	rsical and (	Chemical Dat IPONENTS TA sts of the foll Lube Oil	a ABLE		mg/l	CONCEN Ranges are 90-	TRATOIN acceptable 100	N/A	UNITS or % %
SECTION 4: Phys	rsical and (	Chemical Dat IPONENTS TA sts of the foll Lube Oil	a ABLE		mg/l	CONCEN Ranges are 90-	TRATOIN acceptable 100	N/A	UNITS or % %
	rsical and (	Chemical Dat IPONENTS TA sts of the foll Lube Oil	a ABLE		mg/l	CONCEN Ranges are 90-	TRATOIN acceptable 100	N/A	UNITS or % %

SECTION 5: Safety Rela	ited Data
If the handling of this w	raste requires the use of special protective equipment, please explain.
Level D	
- CCVCI D	
<del></del>	
	<del>, , , , , , , , , , , , , , , , , , , </del>
SECTION 6: Attached S	upporting Documents
List all documents, note	es, data and/or analysis attached to this form as part of the waste
approval package.	None
SECTION 7: Incompatib	nilities
Please list ALL incompa	
None Known	and the driver
Trone intown	
	s Knowledge Documentation
	he hazardous waste characteristics, listed below, <b>WAS NOT PERFORMED</b>
based upon the following	ng generator knowledge:
TCLP Metals:	Not Regulated
TCLP Volatiles:	Not Regulated
TCLP Semi-Volatiles:	
	Not Regulated
Reactivity:	Non-Reactive
Corrosivity:	Non-Corrosive
Ignitability:	>200
SECTION 9: Waste Receip	ot Classification Under 40 CFR 437 (Prtaining to Pre-Treatment Requirements for Centralized Waste Treatment
-	rial a wastewater or wastewater sludge?
	complete this section.
PLEASE CHE	CK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
Metals Subcategory: Sub	ppart A
	oplating baths and/or sludges
Metal finish	ing rinse water and sludges
Chromate w	
	n control blow down water and sludges
_	zing solutions wastewaters
Waste liquid	
===	ntaining wastes greater than 136 mg/l
	and bases with or without metals
Cleaning, rir	nsing, and surface preparation solutions from electroplating or phosphating operations
☐ Vibratory de	eburring wastewater
Alkaline and	acid solutions used to clean metal parts or equipment
Oils Subcategory : Subpa	rt B
Used oils	
=	nulsions or mixtures
Lubricants	
Contaminat	and groundwistor clean un fram natroloum sources
	ed groundwater clean-up from petroleum sources eum products
Oil spill clea	· ·
Bilge water	n wp
	waters from netroloum sources

	Interceptor wastes  Off-specification fuels  Underground storage remediation waste  Tank clean-out from petroleum or oily sources  Non-contact used glycols  Aqueous and oil mixtures from parts cleaning operations  Wastewater from oil bearing paint washes
Organics Sui	b <u>category</u> : Subpart C
Organics Sur	Landfill leachate
=	Contaminated groundwater clean-up from non-petroleum sources
<u> </u>	Solvent-bearing wastes
<b>—</b>	Off-specification organic product
<del></del>	Still bottoms
<u> </u>	Byproduct waste glycol
<u> </u>	Wastewater from paint washes
<u></u>	Wastewater from adhesives and/or epoxies formulation
_	Wastewater from organic chemical product operations
L	Tank clean-out from organic, non-petroleum sources
(4)	
(1)	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)	
	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in
	excess of the values listed below, the waste should be classified in the metals subcategory.
	Cadmium: 0.2 mg/L
	Chromium: 8.9 mg/L
	-
	Copper: 4.9 mg/L
	Nickel: 37.5 mg/L
(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.  Metals Subcategory  Oils Subcategory Organics Subcategory
CECTION 10	Additional tretunetions
SECTION TO	Additional Instructions
Copper, Nick	t determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, iel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This to acceptance. The generator will be responsible for the cost of the analysis.
SECTION 11	: Generator's Certification
	ation contained herein is based on  generator knowledge and/or  analytical data.
	tify that the above and attached description is complete and accurate to the best of
my knowled	lge and ability to determine that no deliberate or willful omissions of compostion
properties e	exist and that all known or suspected hazards have been disclosed. I certify that the
materials te	sted are representative of all materials described by this document.
Authorized	Signature: Date:
Printed Nar	ne/Title:
CESTISE ON	LY (DO NOT WRITE IN THIS SPACE)
CLO ODE OIN	EL DO NOT WHITE IN THIS STACE
<b>.</b>	
Compliance	
Date:	Approved Rejected
Approval Nu	umber:



4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

Date: 7/24/09

To: Matt Bowman, Sarai Melichar, Jennifer Rust

Cc: Prabhaker, Clint Hopkins, Sam Brown

From: Miles Root Lab Memo: 09-140

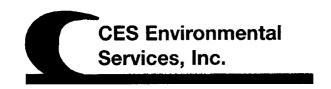
Subject: Tubalcain Evaluations 0709-44 & 45

Two samples from Tubalcain have been evaluated for potential marketing/processing by CES. Evaluation 0709-44 represents approximately 30,000 gallons of lube oil to be received on an occasional basis. Evaluation 0709-45 represents material from the clean out of barge bottoms material. Overall, the oil looks good with the exception of fine brown sediments which need to be removed. The metal solids in the barge bottoms will not allow its usage with our black oil, but the material may be cleaned out using oil or solvents and disposed of.

Evaluation 0709-44 is called lube oil. This oil is slightly turbid in appearance with a pale brown hue. Its appearance is just not quite as clear as new motor oil would be. It has a density of 0.860 which is an API gravity of 33. The color is less than 0.5 and water content is 12 ppm by Hydro Scout. There are fine brown particulates which have settled out to the bottom of the sample jar. They are not numerous and I consider them as only trace quantity but are present and noted. The oil has a typical "oil" odor and the chlor-d-tect is considerably less than 1000 ppm. Other than the particulates this looks like good lube oil.

The barge bottoms material looks, smells and has an odor like roofing tar. This material is soluble in our black oil and toluene. The sample is loaded with bits and pieces of metal, most likely from a storage tank. I cleaned off a piece of this metal and it is attracted to a magnet, so it contains iron. An ash determination of the solids shows 61.6% as ash. This value is actually on the low side, as I solvent washed the solids as best I could in the time frame I had, but I feel that there were still entrained organics present which burned off these solids that lowered the final value. This is just an observation from the nature of this ash test. Also, the resultant ash from this determination is rust brown in appearance so it is almost definitely bits and pieces of a tank that are mixed in with this tar, as this is rust.

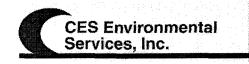
The tar can be removed with hot oil, solvents such as toluene or diesel or even HAN if we are looking to just clean out this material. The hotter the solvent the better and quicker this tar will mix. The extensive amount of chunks, bits and pieces of the tank present will not allow this material to be effectively recovered and sold with our black oil. Geocycle may be willing to burn this material for a price with these metal impurities, and contacting them is recommend if we have no other outlets and wish to pursue this work.



4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

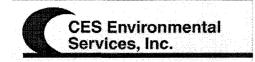
The table below summarizes the analytical testing of the lube oil sample.

Tubalcain						
Evaluation	า 0709-44					
Appearance	Pale brown, turbid					
Particulates, vol%	trace					
Odor	typical oil odor					
API gravity	33					
Water, ppm	12					
Chlor-d-tect, ppm	<<1000					
Black Oil Blendability	Okay					



## PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):
PAY - \$1.16 / gallon
2. Contamination Limit (maximum limit before surchages apply):
3. Surcharge Pricing:
4. Special Testing Requirements:
E. Tuestment and Handling Bustonel.
5. Treatment and Handling Protocol:  Call Jenny or Matt with QC / QA results. Decant oil from water. Water to WWTP
Call Jellity of Watt with QC / QA results. Decant on from water. Water to WWTP
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



## PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product	Recovered/Rec	cycled (if applic	cable):	 	
				 	<del></del>
8. Management for l	Product Recove	ered/Recycled	(if applicable)	 	

Select Env (STS-Specialty Tools) Haz. Orums Called + Spoke w/ Brent 7/27 Said he will auch was waiting on into.



# Texas Commission on Environmental Quality (TCEQ) One-Time Shipment Request for Texas Waste Code For Shipment of Hazardous and Class 1 Waste

Pursuant to the generator notification requirements of 30 Texas Administrative Code (TAC) Section 335.6, the generator of a solid waste is required to submit to TCEQ detailed written information pertaining to the composition and characteristics of the waste. Please complete all applicable sections. Incomplete forms will delay processing. Assigned waste codes cannot be charged without prior approval from TCEQ.

delay processing. Assigned waste codes cannot be changed without prior approval from TCEQ.							
Generator Contact Person:							
Generator Company Name: STS - Special Generator Mailing Address: 1131 8. FM	ialty	ا ر	Renta	1 To	015 & 5	upoly	
Generator Mailing Address: 1131 8. FM	517	, —				•• )	
Alvin, TR 77:							
Generator Phone No.: (281) 331-1800		Gene	erator F	ax No.:	( )		
Texas Solid Waste Registration (SWR) No. (Only If Registered)		U.S. Ideni	EPA tification	n <b>N</b> o.			
Generating Site Location: (check if same as above) Must be street address or physical description including zip code)							
Designated Treatment, Storage, and/or Disposal Fa	cility na	ame a	ınd add	ress:			
		*C	nly fill ou	t System	Type Code if y	ou selected	Source Code G25.
Description of Waste (Do Not Use DOT description or Trade name)	Form	Code	Class Code	Origin Code	Source	System Type Code*	EPA Waste Code
•	<b>}</b>					0,	
1. UN3288, Toxic solids,	30	a	H	8	G19	H132	D005, D008
1. UN3288, Toxic solids, inorganic, n.o.s. (barium, lea 6.1, PGIII	Texas (Assi	Texas Waste Code: (Assigned by TCEQ)					
2.							
	Texas (Assig	s Was	te Code by TCE	Q)	L		<b>.</b>
Generator/Representative I certify that the above information is complete and accurate to the best of my knowledge.							
Signature				D	ate	<del></del>	
Company Name:					<u> </u>		-
(If different than generator)  Company Mailing Address:							
Company Phone No.: ( ) Company Fax No.: ( )							
Processed Date: Processed By	;				TCEQ Regior	n:	

If you have questions on how to fill out this form or about the One-Time Shipment program, please contact us at 512/239-6413. Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, contact us at 512/239-3282. TCEQ-0757 (Rev. 05/10/2007)

		American Ecolog	y Corporation Lan	d Disposal Restriction Fo	orm
Generato		SPECIALTY RENTAL TOC	OLS AND SUPPLY	EPA I.D. Number:	CESQ
Waste St		*		Manifest # (with shipment):	Debrie
Waste is		` ∐ Wastewa	ıter ⊠ I Sub Category	Non-Wastewater For Debris - Contaminants	Debris
EPA WAS	SIEC	ODE(2)	Sub Category	For Debris - Contaminants	subject to Treatment
D005 D008					
D000			<u> </u>		
Check if t	he wa	aste is one of the following:	□ D001 - D043	Complete Attachment 2	(UHC list)
0110011111			F001 - F005	Complete Attachment 3A	•
			☐ F039	Complete Attachment 3B	
If treatmen	nt sta	ndards are expressed as a	specific technology then	list the 5 letter treatment code(s	s): <u>H132</u>
			_ , , , , , , , , ,	40.055.000.7( ) (0))	
A.	Ш	Restricted Waste Meets	Freatment Standards (	<b>40 CFR 268.7(a) (3))</b> ndards in 40 CFR 268.40 or Alturnitive L	DP treatment standards for
		contaminated soil 40CFR268.49	and can be landfill disposed v	without further treatment. I have attached	d all supporting analytical
		data, where available.			
				ned and am familiar with the waste th ation that the waste complies with the	
		specified in 40 CFR Part 268 Se	ubpart D. I believe that the i	nformation I submitted is true, accura	ate and complete. I am
		aware that there are significan		false certification, including the poss	
В.		imprisonment.	d To Trootmant Stands	ards (40 CFR 268.7(b) (l) & 268.	7 (b) (2))
ъ.	ш			cted waste identified above has been tes	
		treatment residues or extract me	et all applicable treatment star	ndards in 40 CFR 268.40 and/or perforn	
		268.45. I have attached all support		vailable. ied and am familiar with the waste thr	ough analysis and tosting
				ation that the waste complies with the	
		specified in 40 CFR Part 268 S	ubpart D. I believe that the in	nformation I submitted is true, accura	ate and complete. I am
		aware that there are significant imprisonment.	t penalties for submitting a	false certification, including the poss	ibility of a fine and
C.	П	•	echnology Based Trea	tment Standards (40 CFR 268.	7(b) (4))
				ed and am familiar with the treatmen	
				and that based on my inquiry of the	
				ne treatment process has been operat ecified in 40 CFR 268.40, without impe	
				alties for submitting a false certificat	
_		possibility of a fine and imprise		T	200.0
D.	لــا			Treatment For UHC (40 CFR 2 accordance with the requirements of 4	
				Underlying Hazardous Constituents (UI	
				re that there are significant penalties for	submitting a false
		certification, including the possible Complete LDR Attachment 2 for		11.	
E.		Restricted Waste Subject		R 268.7(a) (2))	
		The restricted waste identified ab	ove must be treated to the ap	plicable treatment standards in 40 CFR	
		with applicable prohibitions set to available.	rth in Part 268.32 or RCRA S	ection 3004(d). I have attached all supp	orting analytical data, where
F.	$\boxtimes$	Hazardous Debris Subject	ct To Treatment (40 CF	R 268.45)	
	_			alternative treatment standards in 40 CF	R 268.45.
G.				ension (40 CFR 268.7(a) (4))	
				ase exemption under 40 CFR 268.5, an CFR 268, and is not prohibited from lar	
				The corresponding treatment standard(s	
	_	CFR 268.40. I have attached all s	supporting analytical data, whe	ere available.	, · · · · ·
Н.	Ш	Restricted Waste Manage	•		
				ed and am familiar with the waste and dix IV to 40 CFR Part 268 and that the	-
		<u> </u>	• •	reatment standards for lab packs at 4	•
		_	penalties for submitting a f	false certification, including the poss	ibility of a fine and
Logratify	nd w	imprisonment. arrant that the information	n that annears on this	form, and appended documen	ite ie truo and correct
				accordance with 40 CFR 268. M	
				or is based on my inquiries of	
	-	r obtaining the information		or to bacoa on my myamics of	
Authorize		_		<b>Fitle</b>	Date
Authorize	عار	J. 101016		- ILIO	Date

AEC Revision 8/24/98

LDR - Page 1of 5

		American Ecolog	gy Corporation La	nd Disposal Restriction F	orm
Generator	•	SPECIALTY RENTAL TO	OLS AND SUPPLY	EPA I.D. Number:	CESQ
Waste Str			<del></del>	Manifest # (with shipment):	
Waste is a		☐ Wastewa CODE(S)	ater 🔲 Sub Category	Non-Wastewater For Debris - Contaminant	☐ Debris s subject to Treatment
D005		<del></del>			
D008					
Chook if th		ste is one of the following:	□ D001 - D043	Complete Attachment 2	(LIHC list)
		, and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second	☐ F001 - F005 ☐ F039	Complete Attachment 3 Complete Attachment 3 n list the 5 letter treatment code	A (Spent Solvent) B (Leachate)
_				(10.075.000.7( ) (0))	
А.		contaminated soil 40CFR268.49 data, where available.  I certify under penalty of law to through knowledge of the value specified in 40 CFR Part 268 S	bove meets the treatment state and can be landfill disposed that I personally have examinate to support this certification of the control of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certification of the certificati	(40 CFR 268.7(a) (3)) andards in 40 CFR 268.40 or Alturnitive without further treatment. I have attach ined and am familiar with the waste focation that the waste complies with the information I submitted is true, accurated in the control of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position of the position	ed all supporting analytical through analysis and testing he treatment standards rate and complete. I am
В.		The treatment residue, or extract treatment residues or extract med 268.45. I have attached all supp I certify under penalty of law toor through knowledge of the value specified in 40 CFR Part 268 S	t of such residue, or the restreet all applicable treatment storting analytical data, where that I personally have examinate to support this certificulpart D. I believe that the	ards (40 CFR 268.7(b) (I) & 268 icted waste identified above has been to andards in 40 CFR 268.40 and/or perforavailable.  In and am familiar with the waste the cation that the waste complies with the information I submitted is true, accumentalise certification, including the posterior.	ested to assure that the rmance standards in 40 CFR hrough analysis and testing he treatment standards rate and complete. I am
C.		I certify under penalty of law to of the treatment process used responsible for obtaining this properly so as to comply with	hat I personally have exami to support this certification information. I believe that the the treatment standards sp hat there are significant pe	atment Standards (40 CFR 268 ned and am familiar with the treatme on and that based on my inquiry of the treatment process has been operated in 40 CFR 268.40, without impossibles for submitting a false certification.	nt technology and operation nose individuals immediately ated and maintained permissible dilution of the
D.		Resticted Waste Dechard I certify under penalty of law that hazardous characteristic. This decay	acterized But Requires the waste has been treated echaracterized waste contain treatment standards. I am aw bility of a fine and imprisonme	s Treatment For UHC (40 CFR in accordance with the requirements of s Underlying Hazardous Constituents (lare that there are significant penalties fund.	40 CFR 268.40 to remove the JHC) that require further
E.			bove must be treated to the a	R 268.7(a) (2)) pplicable treatment standards in 40 CFI Section 3004(d). I have attached all sup	
F.	$\boxtimes$	Hazardous Debris Subje		FR 268.45) alternative treatment standards in 40 C	FR 268.45.
G.		This restricted waste identified a 268.6 or a nationwide capacity v	bove is subject to a case by or ariance under Subpart C of 4 date) for this restricted waste.	tension (40 CFR 268.7(a) (4)) case exemption under 40 CFR 268.5, at 0 CFR 268, and is not prohibited from la The corresponding treatment standard there available.	and disposal. LDR prohibitions
Н.		Restricted Waste Manag I certify under penalty of law the contains only waste that have a combustion facility in comp aware that there are significant imprisonment.	ed In A "Lab Pack" (4) nat I personally have exami been excluded under appe liance with the alternative t penalties for submitting a	O CFR 268.7(a) (9)) ned and am familiar with the waste a ndix IV to 40 CFR Part 268 and that t treatment standards for lab packs at false certification, including the pos	his lab pack will be sent to 40 CFR 268.42(c). I am sibility of a fine and
				form, and appended docume	
				accordance with 40 CFR 268.	
		onal examination of the i r obtaining the information		, or is based on my inquiries o	of those individuals
Authorize		-		Title	Date

LDR - Page 1of 5

AEC Revision 8/24/98

TEFOOLOG	<b>(7</b>	US	Ecology Ne	evada (B	Seatty) 🗹 Us	S Ecology Te	exas (Robstown	) Profile #:	
an American Ecology company	y	US	Fax (775) Ecology Id Fax (208)	laho (Gra	and View)	Fax (361) 3	87-0794	_	
A. CUSTOMER INFORMATION		*W			will be : 🔲 Ind	ustrial	NON - Industria	al *(Texas custo	mers only)
Generator: <u>STS</u> -Specie	elty	Rento	y To	1015 8	Supply	Check	if Billing is Sam	ne	· · · · · · · · · · · · · · · · · · ·
Facility Address: 1131 FM 517	-					Billing Co			ntal Services, Inc.
(No PO Box) Alvin, TX 775.	1					Billing Ac		4904 Griggs	***
Mailing Address						City/State	=	Houston, TX 77	
City/State/Zip:						Billing Co		Juanita Thomas	
Technical Contact: Joy Baker						1	: <u>713-676-1460</u>	-	713-676-1676
Phone: <u>713-676-1460</u>	Fax:	716-676	5-1676	• • • • • • • • • • • • • • • • • • • •	<del>_</del>	Email:	jthomas@c	cesenvironme	<u>ntal.com</u>
		sQG	✓ LQG	EPA II		CESQG		State ID#_	TXCESQG
B. SHIPPING INFORMATION		14				and the second		and the same	V I G
1. US DOT Shipping Name		D 1			, inorganic, n.o.s.				. Hazard Class
3. UN/NA # UN3288 6. Container Type: Bulk Totes		-	aging Gro	-	<u>III</u>	5.RC	`	na	
·	Palle	-		Size		7. Frequency	_	✓ QTR	Month
☐ Boxes ☐ Bags ☑ Drums ☐	_ Other			Quantity	y	-	1 Time	Other	
C. GENERAL MATERIAL & REC	Street was an annual of		Shin a key in family with a family and	TION	STATE SALVE LINE SECURE AND ADDRESS.	Aldring Street, Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. Street, St. St	### #### #############################	A CONTRACTOR OF THE PARTY OF THE PARTY.	Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Contro
1. Common name for this waste		taining o							
2. Process generating the material		ed into d	irt				****		
(include additional sheets as necessary) 3. Describe Physical Appearance of Waste	dark so	1: .1							
		·	Г	Describe			<del></del>		
	Slight					or (anasif i)			
s. Knowledge is from: ✓ Lab Analysis ☐ Yes ✓ No Is the material <500 P				rator kno				In EDA I and Di	
Yes No Waste Subject to Benz		_			Yes No				sposal Restrictions
✓ Yes No State waste codes	elle NE.	эпар к	guiations			7		se complete LDR	
Yes No CERCLA Regulated (S	unarfur	d) Was	l		H	_	nt sub-catergory		✓ Non-wastewater
Yes No EPA Haz. Waste (list	_	D005					aste: If yes, lis	_	List in acction D
es 100 Et A 11az. Waste (list	Jouesy	D003	D008					ents of Concern:	
		<u> </u>			Yes ☑ No☐ Yes ☑ No			a after the initial j	point of generation?
		<u> </u>			-		standards for S	Soil ?	
					Source Code G	,	Form Code W		Igt. Method <b>H</b>
D. MATERIAL COMPOSITION	I (Physi	cal/Char	nical)	E Das	s the waste ex	hihit or co	nfain the fel	lowing:	— whether the same
(Range Total > or = 100%) Values are	sudestablished medien	CLP	TOTALS	2 THI 14441 TIME THE CO.	✓ No Oxidizer		WALLEY COLAR N. W. Y. WARREST CO. C. C. C. C. C. C. C. C. C. C. C. C. C.	React. Sulfides	ppm
	ıl value		range		✓ No Explosive	·		React. Cyanides	ppm
soil	95-100	%			No Organic I		_ =	Water/Air (Pyroph	
oil	0-3	%		☐ Yes		nsitive	Yes 🗹 No	Thermally Unstabl	e
barium	5200	ppm-		Yes	_	[	_ =	TSCA Regulated P	
lead	<u> </u>	-bew.	TCLP	Yes		-	= = =	Regulated Medical	
					✓ No Radioacti			Compressed Gasse	
					=			r 40 CFR 268, Appe	
				STREET, STORY OF STREET	SICAL CHAR		***************************************	, <u>rr</u>	
				1.Flash Po	>140	°F (if <140°F	2.Typical pH:	<i>n/a</i> p	H Range:  ≤2
					No Possibil				>2, <12.50
				✓ Yes	No Does w	aste pass the	EPA specified p	aint filter test?	≥ 12.5
G. GENERATOR'S CERTIFICATI			✓ No	I certify	this material ma	y be dispose	d of without furt	ther treatment.	
Certification Statement: I certify under penalty								e, and	
that all information provided is true, accurate, re Furthermore, I certify that this form was complet			-		-		٠. ١		
1	-a acc	N	me met	. avaions p		Print Name	- July (	Janes	-12 /20
Signature:		120000000000000000000000000000000000000	Carlo Salaysia Salaysia		Title:	MANK	eppor her	Date:	7/20/08
Facility use only		100							5 37 2
First review * \( \frac{1}{2} \)	100	Second	review			e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya dela companya dela companya dela companya de la companya de la companya de la companya dela companya de la companya de la companya de la companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela companya dela comp	_Final review: .	Marie Company	400
Date approved:	100	Property of			487 47	WART.	Date Denied:	H ME WAY	A STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STA

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# ASAP

d'uill sign it.

Company: STS-Rentals	
Address: 1131 = M 517	
City: Atulh State: TX Zip: 77511	
Phone Number: 281, 381, 1800 Fax Number:	
24/hr Phone Number:	
US EPA ID No:	
State ID No: SIC Code:	\
SECTION 2: Billing Information - Same as Above	
company: Select Environmental (9)	
Address: 723 M Carty City: Houston State: TX Zip: 77029 Contact: Brew Hill Title: Sales	
City: Houston State: TX Zip: 77029	ĸ
Contact: Brent Hill Title: Sales Quint	ン
Phone Number: 281, 220, 9094 Fax Number;	
SECTION 3: General Description of the Waste	
Name of Waste:	
Detailed Description of Process Generating Waste:	
A A A A A A A A A A A A A A A A A A A	
oil socked into dirt	
Physical State: Liquid Sludge Powder	
Solid Filter Cake Combination	
color: dark brown odor: hydrocarbon	
Specific Gravity (water=1): Density:lbs/gal	
Does this material contain any total phenolic compounds?	
Does this material contain any para substituted phenolic compounds?	
/	
Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) Yes No	
Answer "Yes" If your waste contains benzene AND if the SIC code from your facility is one of the following:	
2812 2813 2816 2819 2821 2822 2823 2824 2833 2834	
2835 2836 2841 2842 2843 2844 2851 2861 2865 2869	
2873 2874 2876 2879 2891 2892 2893 2896 2899 2911	
3312 4953 4959 9511	
_/ _	
Layers: Single-phase Multi-phase	
Container Type:	
Frequency:  Weekly  Monthly  Yearly  One-Time Quantity:	

Is this a USEPA "Hazardous Waste" per 40CFR 261.37									
Characteristic for Toxic i		☐ D004 ☐ D010	□D011	□ D006	D003 (Read	tive) D008	□0009		
Characteristic for Toxic (	ntganics: Dots tu	ni coos (p	nease ust an	tuat appiyi					
Is this an "F" or "K" liste If "Yes", then please if			?	☐ Yes	Ŋ	No			
Is this a commercial pro- 40 CFR 261.33(e) or (f)? If "Yes", then please li		□ Y		ı "U" or "P" wa No	ste code un	der			
Texas State Waste Code	Number:		<u> </u>	ESQY	891				
Proper US DOT Shipping	Name:							<b>-</b>	
Class:	_UN/NA:		PG:		RQ:	<u> </u>			
Flash Point	PH		Reactiv	ve Sulfides	Reactive	Cyanides	Solie	ds	
				mg/l		mg/l		%	
AN 0 40							ia		
Oli & Grease	TOC				Сор		MIEK		
mg/l	TOC	mg/(		Zinc <u>mg/l</u>	Сор	per mg/l	NIEK	mg/l	
<del></del>		mg/(			Сор		RIEK		
mg/l SECTION 4: Physical and	Chemical Data			me/l	CONCENT	mg/l	Niex	mg/i	
mg/l SECTION 4: Physical and	Chemical Data			me/l		mg/l	NIER	mg/l	
mg/l SECTION 4: Physical and	Chemical Data			me/l	CONCENT	mg/l	NIER	mg/i	
mg/l SECTION 4: Physical and	Chemical Data			me/l	CONCENT	mg/l	NEX	mg/i	
mg/l SECTION 4: Physical and	Chemical Data			me/l	CONCENT	mg/l	NEX	mg/i	
mg/l SECTION 4: Physical and	Chemical Data			me/l	CONCENT	mg/l	NEX	mg/i	
mg/l SECTION 4: Physical and	Chemical Data			me/l	CONCENT	mg/l	NEX	mg/i	
mg/l SECTION 4: Physical and	Chemical Data			me/l	CONCENT	mg/l	NEX	mg/i	
mg/l SECTION 4: Physical and	Chemical Data			me/l	CONCENT	mg/l	NEX	mg/i	
mg/l SECTION 4: Physical and	Chemical Data			me/l	CONCENT	mg/l	MEX	mg/i	
mg/l SECTION 4: Physical and	Chemical Data			me/l	CONCENT	mg/l	NEX	mg/i	
mg/l SECTION 4: Physical and	Chemical Data			me/l	CONCENT	mg/l	NEX	mg/i	
mg/l SECTION 4: Physical and	Chemical Data			me/l	CONCENT	mg/l	MEX	mg/i	
mg/l SECTION 4: Physical and	Chemical Data			me/l	CONCENT	mg/l	MEX	mg/i	
mg/l SECTION 4: Physical and	Chemical Data			me/l	CONCENT	mg/l	MEX	mg/i	
mg/l SECTION 4: Physical and	Chemical Data			me/l	CONCENT	mg/l	NEX	mg/i	
mg/l SECTION 4: Physical and	Chemical Data			me/l	CONCENT	mg/l	MEX	mg/i	

SECTION 5: Safety Reli	vaste requires the use of	of special protective equip		•	
SECTION 6: Attached State of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second seco		attached to this form as	part of the waste		
SECTION 7: Incompati Please list ALL incompa					
SECTION 8: Generator Laboratory analysis of t based upon the follow!	he hazardous waste ch	aracteristics, listed below,	, WAS NOT PERFORM	<b>1</b> ED	
TCLP Metals:		· · · · · · · · · · · · · · · · · · ·			
TCLP Volatiles:					
TCLP Semi-Volatiles:	***				
Reactivity:					
Corrosivity: ignitability:					·
Facilities) Is this mate	nt Classification Under 40 rial a wastewater or wast complete this section.	CFR 437 (Prtaining to Pre-)	reatment Requiremen		d Waste Treatment
PLEASE CHE	CK THE APPROPRIATE BO	OX. IF NO APPROPRIATE CA	TEGORY, GO TO THE N	EXT PAGE.	
☐ Metal finish ☐ Chromate w ☐ Air pollution ☐ Spent anodi ☐ Incineration ☐ Waste liquix ☐ Cyanide-cor ☐ Waste acids ☐ Cleaning, rir ☐ Vibratory de	oplating baths and/or sludgrastes a control blow down watering solutions wastewaters at mercury staining wastes greater the and bases with or withousing, and surface prepare	er and sludges nan 136 mg/l		operations	
Oils Subcategory : Subpo	rt B				•
Used oils	nulsians or min				
Ull-water en Ubricants	nulsions or mixtures				
Coolants					
		from petroleum sources			
Used petrole ☐ Oil spill clea:	eum products				
Blige water	<del>,</del>				
Rinse/wash	waters from petroleum s	ources			

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Cadmium, Chromium, oncentrations. This
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Total P.004



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name:

STS Rental - Soil

Report To:

Client Name:

Select Environmental Petroleum Management

Kevin White

Client Address: 223 McCarty Drive

City, State, Zip: Houston, Texas, 77029

P.O.#.:

Sample Collected By: Brent Hill

Date Collected: 07/06/09

A&B Labs has analyzed the following samples...

Client Sample ID

Matrix

A&B Sample ID

Soil

Soil

09070113.01



Released By: Shantall Carpenter

Title:

Project Manager

Date:

7/15/2009



This Laboratory is NELAP (T104704213-09-TX) accredited. Effective: 07/01/2009; Expires: 06/30/2010

Scope: Non-Potable Water, Drinking Water, Air, Solid, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided

Date Received: 07/06/2009 11:58

#### LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID: 09070113

Date:

7/15/2009

Term Definition

Back Weight Back-Wt BRL Below Reporting Limit cfu colony-forming units Conc. Concentration

D.F. Dilution Factor

Front-Wt Front Weight LCS Laboratory Check Standard LCSD Laboratory Check Standard Duplicate

MS Matrix Spike MSD Matrix Spike Duplicate

WW Molecular Weight Post-Wt

RptLimit

Post Weight parts per million ppm Pre-Wt Previous Weight Qualifier Q

Regulatory Limit RegLimit RPD Relative Percent Difference

Reporting Limit

SDL Sample Detection Limit surr Surrogate

Ŧ Time

TNTC Too numerous to count

Surrogate not available due to dilution of sample extract for quantification.

#### LABORATORY TEST RESULTS



Job ID . 09070113

Date 7/15/2009

Client Name: Select Environmental Petroleum Management ::: Attn: Kevin White -STS Rental - Soil

Project Name:

Client Sample ID; Soll
Date Collected: 07/06/09
Time Collected: 10:00
Other Information:

Job Sample ID: 09070113.01 Sample Matrix Soll

Test Method	Parameter/Test Description	Result	- Units -	DF	🛨 Rpt Limit   Reg Limit   Q.:::	Date Time	Analyst
W-846 6010C	Total Metals						
Campunaturus de la composition de la composition de la composition de la composition de la composition de la c	Arsenic	2.692	mg/Kg	1	0.5	07/10/09 14:16	TK
	Barium	3670	mg/Kg	100	50	07/10/09 14:47	TK
•	Cadmium	3.624	mg/Kg	1	0.5	07/10/09 14:16	ΤK
	Chromium	41.87	mg/Kg	1	0.5	07/10/09 14:16	TK
	Lead	165.5	mg/Kg	10	5	07/10/09 14:24	TK
,	Selenium	BRL	mg/Kg	1	0.5	07/10/09 14:16	ΤK
	Silver	BRL	mg/Kg	1	0.5	07/10/09 14:16	TK
W-846 7470A	Total Metals - Mercury						
	Mercury	0.078	mg/Kg	1	0.01	07/07/09 16:18	SS
W-846 8021B	Purgeable Aromatics						
	Benzene	BRL	mg/Kg	1	0.01	07/06/09 19:31	HK
	Toluene	BRL	mg/Kg	1	0.01	07/06/09 19:31	HK
	Ethylbenzene	BRL	mg/Kg	1	0.01	07/06/09 19:31	HK
	m- & p-Xylenes	BRL	mg/Kg	1	0.02	07/06/09 19:31	HK
	o-Xylene	BRL	mg/Kg	1	0.01	07/06/09 19:31	HK
	Xylenes	BRL	mg/Kg	1	0.03	07/06/09 19:31	HK
	Trifluorotoluene(surr)	96	%	1	81-111	07/06/09 19:31	НК
X 1005	Total Petroleum Hydrocarbons						
	C6-C12	BRL	mg/Kg	4	58.8	07/07/09 14:41	WS
	>C12-C28	993	mg/Kg	4	73.6	07/07/09 14:41	WS
	>C28-C35	1272	mg/Kg	4	76.4	07/07/09 14:41	WS
	Total C6-C35	2265	mg/Kg	4		07/07/09 14:41	WS
	1-Chlorooctane(surr)	N/A	%	4	50-149 S4	07/07/09 14:41	WS
	Chlorooctadecane(surr)	52.7	<del></del>		50-149	07/07/09 14:41	WS



Job ID: 09070113

Date:

7/15/2009

Analysis : Purgeable Aromatics

Method:

SW-846 8021B

Reporting Units : mg/Kg

QC Batch ID: Qb09070706

Created Date: 07/07/09

Created By : Hkhuc

Samples in This QC Batch: 09070113.01

Sample Preparation: PB09070705

Prep Method: SW-846 5035A

Prep Date: 07/06/09 16:10 Prep By:

Hkhuc

QC Type: Method Blank				
Parameter CAS #	Result	Units	D.F. RotLimit	Qual
Benzene 71-43-2	BRL	mg/Kg	. 0.01	
Toluene 108-88-3	BRL .	mg/Kg	0.01	
Ethylbenzene 100-41-4	BRL	mg/Kg	0.01	
m- & p-Xylenes 108-38-3&106-42-3	BRL	mg/Kg	0,02	
o-Xylene 95-47-6	BRL	mg/Kg	1 0.01	
Xylenes	BRL	mg/Kg	1 0.03	

QC Type: LCS and LCS	j								
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPO	RPD CtrlUmit	%Recovery CtriUmit Qual
Benzene	0,1	0.101	101	1.0	0.1	100	14:4:4:	20	80-120
Toluene	0.1	0.091	91	0.1	0.092	92	1.1	20	80-120
Ethylbenzene	0.1	0.097	97	0.1	0.097	97	0	20	. 80-120
m- & p-Xylenes	0.2	0.204	102	0,2	0.203	102	0.5	20	80-120
o-Xylene	0.1	0.092	92	0,1	0,092	92		20	80-120
Xylenes	0.3	0,296	98,7	0.3	0.295	98.3	0.3	20	80-120

QC Type: MS and MSD QC Sample ID: 090700										
Parameter	Sample Resúlt	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlUmit	%Rec Ctrillimit Qual
Benzene	BRL	0.1	0.095	95						68-138
Toluene	BRL	0.1	0.083	82.8						67-135
Ethylbenzene m: & p-Xylenes	BRL	0.1	0.081	81 82.5						71-127 56-135
o-Xyiene	BRL	0.1	0.076	75.5						56-134
Xylenes	BRL	0.3	0.242	80.7						59-134



Job ID: 09070113

Date:

7/15/2009

Analysis : Total Petroleum Hydrocarbons

TX 1005 Method:

Reporting Units: mg/Kg

QC Batch ID: Qb09070717

Created Date: 07/07/09

Created By: Dshen

Samples in This QC Batch: 09070113.01

Sample Preparation: PB09070715

Prep Method: TX 1005

Prep Date: 07/06/09 15:30 Prep By:

Dshen

QC Type: Method Blank				
Parameter	CAS #	Result Units	· · · · · · · · · · · · · · · · · · ·	mit Qual
C6-C12		8RL mg/Kg	1 14.	<b>7</b>
>C12-C28		BRL mg/Kg	1 184	
Total C6-C35		BRL mg/Kg		

QC Type: LCS and LCSI				
	*****			
	LCS LCS	LUS LUSD	LCSD LCSD	KPD %Recovery
Parameter	Spk Added Result	% Rec Spk Added	Result % Rec R	PD Ctriumit Ctriumit Qual
C6-C12	500 473	94.6 500	456 91.2	3.7 1 1 20 1 1 20 1 1 75-125 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
>C12-C28	500 431	86.2 500	409 81.8	5.2 75-125
~C36 C35	500 549	110 500	480 078	16 75-125
/C20-633	י פדע. ן	110	3,40	*'d.'.' ''''

QC Type: MS and MSD					
QC Sample ID: 0907012	6.01				
	Sample MS	MS MS	MSD MSD	MSD	RPD %Rec
rarameter	Kesuit Spx Added	Kesuit % Kec	Spk Added Result	% Rec RPD	ctnumit cunumit Quai
C6-C12	BRL 500	462 96.1			75-125
>028-035	BRI SÓO	414 79.3			75-125



Job ID: 09070113

Date:

7/15/2009

Analysis : Total Metals - Mercury

Method :

SW-846 7470A

Reporting Units : mg/Kg

QC Batch ID: Qb09070747

Created Date: 07/07/09

Created By: Ssrinivasan

Samples in This QC Batch: 09070113.01

Digestion:

P809070735

Prep Method: SW-846 7470A

Prep Date: 07/07/09 09:30 Prep By:

Ssrinivasan

QC Type: Method Blank Parameter	CAS # Resul	Units	D.F. RotUmit	Oual
Mercury	7439-97-6 BRL	mg/Kg	1 0.01	

QC Type: LCS and LCSD	100	100	ran lann	Non Alla
Parameter Spi	k Added Result	% Rec Spk Added	Result % Rec	RPO %Recovery  RPD CtriLimit CtriLimit Qual
Mercury	0.1 0.102	102 0.1	0.094 93.5	9 20 80-120

QC Type: MS and MSD				
QC Sample ID: 0907011	3.01			
Parameter	Sample MS Result Spk Added	MS MS MSD  Result % Rec Spk Added	MSD MSD Result % Rec I	RPD %Rec RPD Cirilimit Cirilimit Qual
Mercury	0.078 0.1	0.178 100		70-130



Job ID: 09070113

Date:

7/15/2009

Analysis : Total Metals

Method :

SW-846 6010C

Reporting Units : mg/Kg

QC Batch ID: Qb09071022

Created Date: 07/10/09

Created By: Tkhuc

Samples in This QC Batch: 09070113.01

Digestion:

PB09071030

Prep Method: SW-846 3050B

Prep Date: 07/10/09 09:00 Prep By:

Tkhuc

QC Type: Method Blank						
Parameter	CAS#	Result	Units	O.F. Rp	itUmit	Qual
Arsenic	7440-38-2	BRL	mg/Kg	-1-1:1 <b>1</b> :1:1:1	0.5	
Barlum	7440-39-3	BRL	mg/Kg	14-11-1-1	0.5	
Cadmium	7440-43-9	BRL	mg/Kg		0.5	
Chromium	7440-47-3	BRL	mg/Kg		0,5	
Lead	7439-92-1	BRL	mig/Kg		0.5	
Selenium	7782-49-2	BRL	mg/Kg		0.5	
Silver	7440-22-4	BRL	mg/Kg	i	0.5	

QC Type: LCS and LCSD									
	LCS LCS	LCS	LCSD	LCSD	LCSD	n Ho	RPD	%Recovery	
Parameter Sp Arsenic	ok Added Resul		Spk Added 25	Result 22.65	% Rec 90,6	RPD 0.8	CtdLimit 20	CtriLimit 80-120	Qual
Barium	25 23.98		25	23.82	95.3	0.7	20	80-120	
Cadmium	25 23.25 25 23.76		25	23.08 23.86	92.3 95.4	0.6	20	80-120 80-120	
Lead	25 23.49		25	23,36	93.4	0.6	20	80-120	
Selenium	25 21.5	1. 11. 1. 1. 1. 1. 1.	25	21.29	. 85.2	1.1	20	80-120	
Chromium Lead	25 23.76 25 23.49	95,1 94 3 86.1	25 25 25 25	23,86 23,36	95.4 93.4	0.3 0.6 1.1 0.5	20 20 20 20	alala alalalalalala alala	

QC Type: MS and MSD											
QC Sample ID: 090701	09.01										
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD Ctrlijmit	%Rec CtrlLimit	Qual
Arsenic	BRL	25	25,99	102						70-130	
Barium	BRL	25	22.99	91.6						70-130	
Cadmium	BRL	25	22.34	89.3						70-130	
Chromlum	BRL	25	22,55	90.2						70-130	
Lead	BRL	25	21.43	85.6						70-130	
Selenium	0.8172	25	30.24	118						70-130	
Silver	BRL	25	21:27	85.1						70-130	

T0100 Kant Fwy (1+10) Stc. 100 (Rouston, TX 77029 713-453-4060 1-877-478-6060 Toll Free 713-453-6091 Fax a blatts. com  R83 JOB 10 # ( ) ( )   2	Company Address: Contact: Phone: Fax: 66	23 Hou Kri 231 713	3 M ^c Ston vin 160 5 ZS	(47 TX Wh.	ty. te 967	1 70) i	g	2 Comp Addres Contai Phone Fax: C E-mali	ss: :ds:		7 <b>5</b> 5	Zenz	3.10 4.1 (	Sam	<b>)</b>	0 1 1 0 2 1 0 3 1	misroum Day* Jeys*	EJ: Oti "Sturel	ilnoss Days let nage:200let
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# **Sample Condition Checklist**



Date: 07/15/09

Δ&R	JobID: 09070113   Date Received: 07/06/2009   Time Received: 11:58AN	1	
	t Name : Select Environmental Petroleum Management		
	perature : 23.0°C   Sample pH : N/A		
rem	Sample pri . Ny A		· · · · · · · · · · · · · · · · · · ·
-			
	Check Points	Yes	No
1.	Cooler seal present and signed.	N/A	
2.	Sample(s) in a cooler.		Х
3.	If yes, ice in cooler.		Х
4.	Sample(s) received with chain-of-custody.	X	
5.	C-O-C signed and dated.	X	
6.	Sample(s) received with signed sample custody seal.	N/A	
7.	Sample containers arrived intact. (If no comment).	X	
8,	Matrix Water Soll Liquid Sludge Solid Cassette Tube Bulk Badge Food	Oth	
_		<u> </u>	
9.	Sample(s) were received in appropriate container(s).	X	
10.	Sample(s) were received with proper preservative	N/A	
11.	All samples were logged or labeled.	X	
12.	Sample ID labels match C-O-C ID's	×	
13.	Bottle count on C-O-C matches bottles found.	×	
14.	Sample volume is sufficient for analyses requested.	X	
15.	Samples were received within the hold time.	X	
16.	VOA vials completely filled.	N/A	
17.	Sample accepted.	Х	
Com	ments : Include actions taken to resolve discrepancies/problem:		
I			
Rece	ived by: Kisom Check in by/date: Kisom / 07/06/2009		
Dhone	: 713-453-6060 www.ablab	s com	
	. 713-193 goog AMM/qD/qD/	2.COH	

2000, Int. (Doco-Hingary)
Buk-salds

# CES Environmental Services, Inc.

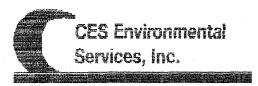
CONFIDENTIAL

**Profit & Loss Sheet** 

CONFIDENTIAL

Billing/AP Information	Salesperson:	Joe Can	P
Name: DICO, Inc.	Assigned:		signed:
Contact: Bill Mantin			
Address: 1666 Jacinto For-	Folder I.D.#	BH UCO (A	10 Houston)
Bud		Bul	x Solids
Thouston'tx Jun,	Job Contact:	Bill Mary	tin
Phone: <u>28 - 249 - 1847 - </u>		Phone:	3540-0478
Fax: 281-457-4794		Fax:	
P.O Required: N: City of Houston: Y N:		urcharge: 🏈	N: N: N: N: N: N: N: N: N: N: N: N: N: N
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Benzene, metal analytical 1	JEB		# 350
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170 Congrance iec			
	Special Research		
Customer	Special Request/Requir	ement	

CONFIDENTIAL



Transportation Work Ticket

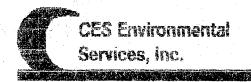
Folder ID:

Duco (Duco - Houston)

	Production Waste	<del>-</del>		
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Phone :	7136761460 CE5 Environmental Service	Consignee :	Duco, Inc.	
Transport Signature		Signature		·
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Custome	er PO #:	Total Hours:		CES Unload:
Gross Weig Tare Weig			j Odometer :	169468 169421 47
Driver:	Soto, Andre	Tractor # : 108		Tote # :
Signature :	Andres Soto	Trailer # :		Box #: BOX#642
	s/Equipment:  Deliver The  To Duc	CES BOX	672	
White (C	CES Office) Yellow (CES Off	ice / Brilling) Pink (CE	S Office / IFTA)	Golden Rod (Customer)

4904 [†]Griggs Road Houston, TX 77021

Tel. (713) 676-1460 Fax. (712) 676-1676



4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fac. (712) 676-1676

## Transportation Work Ticket

Production Waste				
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hone: 7138751460	Consignee :	Duco, Inc.	no and a state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of	
ransporter: CES Environmental Services, Inc	Signature			
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Driver: Soto, Andre Tr	actor # : 108		Tote # :	
gnature: Andres Sato Ti	railer#;	raph a mateil introduction and an annual	Box#:BOX	<u># 642</u>
Comments/Equipment :				
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4904 Griggs Road, Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
<a href="http://www.cesenvironmental.com">http://www.cesenvironmental.com</a>

TCEQ Industrial Solid Waste Permit Number: 30948
U.S. EPA ID Number: TXD008950461 ISWR Number: 30900

SECTION 1:	Generator	Informat	<u>ion</u>						
Company:	Duco, Inc.								
Address:	16661 Jac	into Port I	Blvd						
City:	Houston			State:		Zip:			77015
Contact:	Bill Martin	<u> </u>		······	Title:	***************************************			
Phone Num	ber:	(281) 2	249-2842		Fax Number	(281) 457-679	<del>}</del> 4		
24/hr Phone	a Number:	(713) 5	560-0678		<del></del>			•	3
US EPA ID N	o:	TXD00	0807966						
State ID No:	;			33	3041 SIC Code:		<del></del>		
SECTION 2:	Billing Info	rmation -	: 년 <u>S</u> a	<u>ime as Above</u>					
Company:				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			····		
Address:									
City:				State:		^{Zip:}			
Contact:					Title:				
Phone Num	ber:				Fax Number	:			
SECTION 3:	Ganaral D	necrintion	of the War	**					
SECTION 3.	General Di	:scripuon	or the was	ice.					
Name of Wa	iste:	Soil							
Detailed De			Generating	Waste:			<del></del>		
	,								
Clean up fro	m a diesel :	spill.							
Physical Sta	te:	Liquid		Sludge		Powder			
,		Solid		Filter C		Combination			
Color:	Brown to 8	3lack			Odor:	Hydrocarbon			
Specific Gra	vity (water	=1):	N/A	i		Density: N/	A lbs	/gal	
					<del></del>	<del></del>			
Does this ma	aterial cont	tain any t	otal phenol	ic compounds?	Yes 🗌	☑ No	)		
Does this ma	aterial cont	tain any p	ara substitu	ited phenolic c	ompounds?	Yes	✓ No		
is the Waste	subject to	the benz	ene waste o	operation NESH	IAP? (40 CFR Part	61, Subpart FF)		Yes	✓ No
Answer "Yes	" if your wa	aste conta	ains benzene	AND if the SIC	code from your f	acility is one of t	he following	<b>;</b> :	
2812	281	.3	2816	2819 2	821 282	2 2823	2824	2833	2834
2835	283	6	2841	2842 2	843 284	4 2851	2861	2865	2869
2873	287	4	2876	2879 2	891 289	2 2893	2896	2899	2911
3312	495	3	4959	9511					
Layers:	✓ Sing	le-phase	U	Multi-phase					
	_	, _							
Container Ty	pe: _	Drum	☐ Tote	Truck	Other (explai	n)			
Eraguaness	Mackin.	, D BAG	nthly 🔼 🔻	early 🗌 One	-Time				
Quantity:		LIVIUI	indity 🔼 1	carry One					
quantity:	7 100 011								
Is this a USE	DA "Hazarr	latic Maci	ta" ner AGCI	R 261 22	☐ Yes	☑ No			
is tills a USE	- HO4019	AND MAN	te her and	IL ECTIVE	[_] 169	<u> </u>			

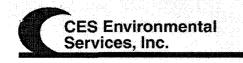
If "Yes", th	ien please com	plete, sign and d	late the Unde	rlying Haza	rdous Constitue	nts Form atta	ched hereto		
	tic for Toxic N	D001 (Ignitable fetals: Irganics: D012 (	☐ D004 ☐ D010	D002 (Cori D005 D011 lease list al	☐ D006	) D003 (Read i		□ D009	•
		d waste or mix		?	☐ Yes	v	No		
40 CFR 261.	33(e) or (f)?	luct or spill clea	Yes		a "U" or "P" wa ] No	aste code un	der		
	Waste Code			······································					
Proper US D	OT Shipping	Name: UN/NA:	····	ous, Non-R PG:	egulated Mate	rial (soil) RQ:			····
Class.		ONTHAL			<del></del>				
	Point	рН			ve Sulfides	Reactive			ids
	140	4-9		BRL	mg/l	BRL	mg/l	100	%
<b>Oil &amp;</b> <1500	Grease mg/l	<1500		BRL	Zinc         Copper           mg/l         BRL         mg/l		Nickel BRL <u>mg/l</u>		
SECTION 4:		Chemical Data						<u> </u>	
	CON	IPONENTS TAB				CONCENT			UNITS
	CON	IPONENTS TAB sts of the follow		ls		Ranges are a	cceptable		or%
	CON	IPONENTS TAB sts of the follow Soil		ls		Ranges are a 85-9	cceptable 9		or %
	CON	IPONENTS TAB sts of the follow		ls		Ranges are a	cceptable 19		or%
	CON	IPONENTS TAB sts of the follow Soil Diesel		łs		Ranges are a 85-9 1-1	cceptable 19		or % % %
	CON	IPONENTS TAB sts of the follow Soil Diesel		ls		Ranges are a 85-9 1-1	cceptable 19		or % % %
	CON	IPONENTS TAB sts of the follow Soil Diesel		ls		Ranges are a 85-9 1-1	cceptable 19		or % % %
	CON	IPONENTS TAB sts of the follow Soil Diesel		is		Ranges are a 85-9 1-1	cceptable 19		or % % %
	CON	IPONENTS TAB sts of the follow Soil Diesel		ls		Ranges are a 85-9 1-1	cceptable 19		or % % %
	CON	IPONENTS TAB sts of the follow Soil Diesel		ls		Ranges are a 85-9 1-1	cceptable 19		or % % %
	CON	IPONENTS TAB sts of the follow Soil Diesel		ls		Ranges are a 85-9 1-1	cceptable 19		or % % %
	CON	IPONENTS TAB sts of the follow Soil Diesel		ls		Ranges are a 85-9 1-1	cceptable 19		or % % %
	CON	IPONENTS TAB sts of the follow Soil Diesel		ls		Ranges are a 85-9 1-1	cceptable 19		or % % %
	CON	IPONENTS TAB sts of the follow Soil Diesel		ls		Ranges are a 85-9 1-1	cceptable 19		or % % %
	CON	IPONENTS TAB sts of the follow Soil Diesel		ls		Ranges are a 85-9 1-1	cceptable 19		or % % %
	CON	IPONENTS TAB sts of the follow Soil Diesel		ls		Ranges are a 85-9 1-1	cceptable 19		or % % %
	CON	IPONENTS TAB sts of the follow Soil Diesel		ls		Ranges are a 85-9 1-1	cceptable 19		or % % %

### SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Level D	
	ched Supporting Documents ts, notes, data and/or analysis attached to this form as part of the waste a. A&B analytical#09070472
SECTION 7: Inco Please list ALL in N/A	mpatibilities compatibilities (if any):
Laboratory analy	erator's Knowledge Documentation sis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED ollowing generator knowledge:
bused upon tile i	ONOWING BUILDING ANDWICKSC.
TCLP Metals:	BRL
TCLP Volatiles:	BRL
TCLP Semi-Volati	
Reactivity:	Non-Reactive
Corrosivity:	Non-Corrosive
Ignitability:	Non-Ignitable
Facilities)	Receipt Classification Under 40 CFR 437 (Prtaining to Pre-Treatment Requirements for Centralized Waste Treatment  s material a wastewater or wastewater sludge?  YES  NO  Yes', complete this section.
PLEA	SE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
☐ Meta ☐ Chro ☐ Air p ☐ Spen ☐ Incin ☐ Wast ☐ Cyan ☐ Usbra ☐ Clear	t electroplating baths and/or sludges al finishing rinse water and sludges mate wastes collution control blow down water and sludges t anodizing solutions eration wastewaters e liquid mercury ide-containing wastes greater than 136 mg/l ee acids and bases with or without metals hing, rinsing, and surface preparation solutions from electroplating or phosphating operations story deburring wastewater ine and acid solutions used to clean metal parts or equipment
Lubri Coola Conta Used Oil sp	oils vater emulsions or mixtures cants ints aminated groundwater clean-up from petroleum sources petroleum products vill clean-up

	Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
	Category: Subpart C Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources
(1)	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.  Cadmium: 0.2 mg/L  Chromium: 8.9 mg/L  Copper: 4.9 mg/L  Nickel: 37.5 mg/L
(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.    Metals Subcategory   Oils Subcategory   Organics Subcategory
SECTION 10 A	Additional Instructions
Copper, Nicke	determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, I, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This pacceptance. The generator will be responsible for the cost of the analysis.
The informat I hereby cert my knowled properties ex materials tes	Generator's Certification cion contained herein is based on  generator knowledge and/or  analytical data. ify that the above and attached description is complete and accurate to the best of ge and ability to determine that no deliberate or willful omissions of compostion kist and that all known or suspected hazards have been disclosed. I certify that the ted are representative of all materials described by this document.
Authorized S	Date: 7/23/2009
Printed Nam	e/Title: Bill Martin/DUCO Inc. QHSE Manager
CES USE ONL	Y (DO NOT WRITE IN THIS SPACE)
Compliance ( Date: Approval Nui	Approved Rejected



## PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):	
\$ 15 /vd, #450 Arip	
2. Contamination Limit (maximum limit before surchages apply):	
3. Surcharge Pricing:	
4. Special Testing Requirements:	
5. Treatment and Handling Protocol:	
Will be redirected to BFI McCarty as Class II Soil. (Green manifest)	
6. Treated Wastewater Discharge Subcategory:	
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C	



## PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Produ	ct Recovered/Rec	cycled (if applical	ole):	
8. Management f	or Product Recove	ered/Recycled (if	applicable)	
			<u> </u>	



# **PURCHASE ORDER**

Production

**PURCHASE ORDER # - REV** 

0021275

This number MUST be shown on all Invoices, Packages, Packing Lists Bills of Lading and Correspondence

Vendor Code CES ENVIRONMENTAL 004257 4904 GRIGGS ROAD HOUSTON, TX 77021

**Buyer Code** ΙK

SHIP TO: DUCO INC.

16661 JACINTOPORT BLVD.

HOUSTON, TX 77015

**VENDOR:** 

Fax: 713-676-1676

BILL MARTIN

	713-676-14	60	Fax: 713-676-1676		Attn: BILL MARTIN			
-	. O. Date		quired Date Due [		F. O.		Terms	
	07/17/09	0	7/17/09 07/17	7/09 Best Way	Duco l		N30	
item	Order Quantity	Unit	Part Number/Revision	Desc	ription	US Do Unit Price	llar Extension	
001		EA	RENTAL	30' ROLLOFF RENTA - TRANSPORT TO DU 7/15/09 ON OR ABOU - 7 DAY RENTAL BAS \$11/DAY - PLASTIC LINER DUE: 07/15/09 GL: 61060215	JCO INC. T 2:00 PM	162.0000	162.00	
002		EA	ANALYSIS	FOUR (4) POST SOIL (ONE DAY RUSH) DUE: 07/17/09 GL: 61060215	ANALYSIS	500.0000	500.00	
003		EA	ANALYSIS	ROLLOFF SOIL ANAL (THREE DAY RUSH) METALS AND BENEZ HYDROCARBONS. DUE: 07/17/09 GL: 61060215	FOR RCRA	540.0000	540.00	
	2	2	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	., - Fotal \$			1,040.00	
			100	TOTAL \$		MATION	1,202.00	
Specia	Instructions:	<u></u>			— Do Not L	<del>Duplicate</del>		
- ·			Confirming Order To:					

--- IMPORTANT---

THE TERMS AND CONDITIONS STATED ON THE BACK SIDE OF THIS PURCHASE ORDER ARE AN INTEGRAL PART OF THIS PURCHASE ORDER.

Page: 1 of 1 02/47/00 42-00-20

**Vendor Copy** 

. DUCDING. Ву:



# **PURCHASE ORDER**

**PURCHASE ORDER # - REV** 

0021279

This number MUST be shown on all Invoices, Packages, Packing Lists Bills of Lading and Correspondence

VENDOR: SHIPSIDE CRATING CO. P. O. BOX 268 **CHANNELVIEW, TX 77530** 

Vendor Code 033902 **Buyer Code** 

ΙK

SHIP TO: DUCO INC.

16661 JACINTOPORT BLVD.

HOUSTON, TX 77015

	281-457-26	347	Fax:	281-452-3348	Attn:	RAY YANEZ		
P	. O. Date	Re	quired Date	Due Date	Ship Via	F. O. B	J.	Terms
+	07/17/09	0	7/21/09	07/21/09	TRUCK	Duco Pl	lant	N30
ltem	Order Quantity	Unit	t Part Num	ber/Revision	Description		US Do Unit Price	llar Extension
001	100	EA	сноскѕ	*	4" X 4" X 10" WITH SLANT CU GL: 68010110	JT	1.5000	150.00
002		EA	вох		WOODEN BOX 3' X 3'X 2" GL: 68010110		142.8000	142.80
					TOTAL \$			292.80
		\ \ \	CTDM/	MOITA	<i>lo 1</i> 27			
		\\\ \\\	ot DIII	ATION plicate				
	DC	"	oc Du		:			
					han ere		n o - 1 m	
pecia	Instructions:	1	,	<u>I</u>		,		
	erts Required	Phys.	& Chem.	irming Order To:	For Resale	Sales Tax Exemption	Number For:	
	<del></del>		I		OPTANT			

Certs Required	Phys. & Chem.	Confirming Order To: EDNA	For Resale If Checked	Sales Tax Exemption Number For:
		IMPORTANT-		
THE TERMS AND (	CONDITIONS STATED O	N THE BACK SIDE OF THIS PURCHASE ORDER	R ARE AN INTEGRA	AL PART OF THIS PURCHASE ORDER.
			<u> </u>	DUCO INC.

Page: 1 of 1 07/17/09 15:06:35

**Vendor Copy** 

Job ID: 09070472



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name:

0709-41 / Tuco, Inc. (Off Sheldon Rd)

Report To:

Client Name:

Attn:

**CES Environmental** 

Joe Camp

Client Address:

4904 Griggs Rd

Houston, Texas, 77021 City, State, Zip:

P.O.# .: 0709-41

Sample Collected By: Durim T.

Date Collected: 07/17/09

A&B Labs has analyzed the following samples...

Client Sample ID

Matrix

A&B Sample ID

0709-41 / Diesel Spill Dig

Soil

09070472.01



Released By: Shantall Carpenter

Title: Date: Project Manager 7/22/2009



This Laboratory is NELAP (T104704213-09-TX) accredited. Effective: 07/01/2009; Expires: 06/30/2010 Scope: Non-Potable Water, Drinking Water, Air, Solid, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided

Date Received: 07/17/2009 14:50

## LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID: 09070472

Date: 7/22/2009

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	SDL	Sample Detection Limit
MS	Matrix Spike	surr	Surrogate
MSD	Matrix Spike Duplicate	Т	Time
MW	Molecular Weight	TNTC	Too numerous to count
Qualifier Defir	nition		



Job ID: 09070472

Date 7/22/2009

Client Name:

CÉS Environmental

Project Name:

0709-41 / Tuco, Inc. (Off Sheldon Rd)

0709-41 / Diesel Spill Dig

Client Sample ID: Date Collected: Time Collected: 10:00

Other Information:

07/17/09

Job Sample ID:

09070472.01

Attn: Joe Camp

Sample Matrix

Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit Q	Date Time	Analyst
SW-846 6010C	TCLP Metals							
	Arsenic	BRL	mg/L	1	0.04	5.0	07/21/09 18:02	TK
	Barium	0.445	mg/L	1	0.04	100.0	07/21/09 18:02	TK
	Cadmium	BRL	mg/L	1	0.04	1.0	07/21/09 18:02	TK
	Chromium	BRL	mg/L	1	0.04	5.0	07/21/09 18:02	TK
	Lead	BRL	mg/L	1	0.04	5.0	07/21/09 18:02	TK
	Selenium	BRL	mg/L	1	0.1	1.0	07/21/09 18:02	TK
	Silver	BRL	mg/L	1	0.04	5.0	07/21/09 18:02	TK
SW-846 7470A	TCLP Metals, Mercury							
	Mercury	BRL	mg/L	1	0.0005	0.2	07/21/09 15:45	SS
SW-846 8021B	TCLP BTEX & MTBE							
	Benzene	BRL	mg/L	1	0.002	0.5	07/21/09 12:17	нк
	Trifluorotoluene(surr)	83.8	%	1	75-125		07/21/09 12:17	HK
TX 1005	Total Petroleum Hydrocarbons							
n ter kkiesengsster itter schip	C6-C12	32.4	mg/Kg	1	14.7		07/20/09 16:57	WS
	>C12-C28	396	mg/Kg	1	18.4		07/20/09 16:57	WS
	>C28-C35	BRL	mg/Kg	1	19.1		07/20/09 16:57	WS
	Total C6-C35	428.4	mg/Kg	1			07/20/09 16:57	WS
	1-Chlorooctane(surr)	98.5	%	1	50-149		07/20/09 16:57	WS
	Chlorooctadecane(surr)	N/A	%	1	50-149	<b>S</b> 5	07/20/09 16:57	WS



**Job ID**: 09070472

Date:

7/22/2009

Analysis: TCLP Metals

Method:

SW-846 6010C

Reporting Units: mg/L

**QC Batch ID**: Qb09072144

Created Date: 07/21/09

Created By: Tkhuc

Samples in This QC Batch: 09070472.01

**Prep Date:** 07/21/09 11:00 **Prep By:** 

Tkhuc

Digestion: TCLP Prep:

PB09072136 PB09072107 Prep Method: SW-846 3010A

Prep Method: SW-846 1311

**Prep Date:** 07/20/09 16:50 **Prep By:** 

Sgarcia

QC Type: Method Blank							
Parameter	CAS#	Result	Units	D.F.	RptLimit		Qual
Arsenic	7440-38-2	BRL	mg/L	1	0.04		
Barium	7440-39-3	BRL	mg/L	1	0.04		
Cadmium	7440-43-9	BRL	mg/L	1	0.04		1
Chromium	7440-47-3	BRL	mg/L	1	0.04		
Lead	7439-92-1	BRL	mg/L	1	0.04		
Selenium	7782 <b>-4</b> 9-2	BRL	mg/L	1	0.1		ŀ
Silver	7440-22-4	BRL	mg/L	1	0.04		

QC Type:	LCS and LCS	D	3 14 1								
Parameter		LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Arsenic		2	1.956	97.8	2	1.951	97.6	0.3	20	80-120	T
Barium		2	2.014	101	2	2.011	101	0.2	20	80-120	
Cadmium		2	1.939	97	2	1.938	96.9	0	20	80-120	}
Chromium		2	1.988	99.4	2	1.991	99.6	0.2	20	80-120	
Lead		2	1.996	99.8	2	1.996	99.8	0	20	80-120	
Selenium		2	1.886	94.3	2	1.882	94.1	0.2	20	80-120	
Silver		2	1.921	96.1	2	1.923	96.2	0.1	20	80-120	

QC Type: MS and MSD QC Sample ID: 090704						· • ·			<u>.</u> ·		
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Arsenic	BRL	2	2.218	110						45-138	
Barium	0.445	2	2.324	94						39-135	
Cadmium	BRL	2	2.108	105						56-125	
Chromium	BRL	2	1.964	97.9					1	52-125	
Lead	BRL	2	1.746	87.1						55-125	
Selenium	BRL	2	2.171	108	1					18-137	]
Silver	BRL	2	2.175	109						26-148	

Refer to the Definition page for terms.



**Job ID**: 09070472

Date:

7/22/2009

Analysis: TCLP Metals, Mercury

Method:

SW-846 7470A

Reporting Units: mg/L

**QC Batch ID**: Qb09072148

**Created Date:** 07/21/09

Created By: Ssrinivasan

Samples in This QC Batch : 09070472.01

Prep Method: SW-846 7470A

**Prep Date:** 07/21/09 10:30 **Prep By:** 

Ssrinivasan

Digestion: TCLP Prep: PB09072141 PB09072107

Prep Method: SW-846 1311

**Prep Date:** 07/20/09 16:50 **Prep By:** 

Sgarcia

Parameter Mercury		CAS #	Result BRL	Units mg/L	D.F.	RptLimit	Qual
QC Type: Method Bla	nk						

QC Type:	LCS and LCSE						·				
Parameter		LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Mercury		0.005	0.0047	94.8	0.005	0.0047	93.2	1.7	20	71-143	Ţ

QC Type: MS a	nd MSD		· · · · ·								
QC Sample ID:	09070472.01										
	Sample	MS	MS	MS	MSD	MSD	MSD		RPD	%Rec	
Parameter	Result	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qual
Mercury	BRL	0.005	0.0049	97.4						61-175	



**Job ID**: 09070472

Date:

7/22/2009

Analysis: TCLP BTEX & MTBE

Method:

SW-846 8021B

Reporting Units: mg/L

**QC Batch ID**: Qb09072204

Created Date: 07/22/09

Created By: Hkhuc

Samples in This QC Batch: 09070472.01

Hkhuc

**Sample Preparation:** PB09072202 TCLP Prep:

PB09072107

Prep Method: SW-846 5030C Prep Method: SW-846 1311

Prep Date: 07/21/09 10:30 Prep By:

**Prep Date:** 07/20/09 16:50 **Prep By:** 

Sgarcia

QC Type:	LCS and LCSD											
		LCS	LCS	LCS	LCSD	LCSD	LCSD		RPD	%Recovery		
Parameter		Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qual	
Benzene	· · · · · · · · · · · · · · · · · · ·	0.02	0.021	105	0.02	0.022	110	4.6	30	79.1-123		

QC Type: MS and MS	SD										-
QC Sample ID: 090	70518.02										
	Sample	MS	MS	MS	MSD	MSD	MSD		RPD	%Rec	
Parameter	Result	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qual
Benzene	BRL	0.02	0.02	99.8	T					65-143	



**Job ID**: 09070472

Date:

7/22/2009

Analysis: Total Petroleum Hydrocarbons

Method:

TX 1005

Reporting Units: mg/Kg

**QC Batch ID**: Qb09072207

**Created Date :** 07/22/09

Created By : Dshen

Samples in This QC Batch: 09070472.01

**Sample Preparation:** PB09072205

Prep Method: TX 1005

Prep Date: 07/20/09 12:00 Prep By:

Dshen

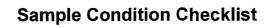
QC Type: Method Blank							
Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
C6-C12		BRL	mg/Kg	1 1	14.7	T	
>C12-C28		BRL	mg/Kg	1	18.4		
>C28-C35		BRL	mg/Kg	1	19.1		
Total C6-C35		BRL	mg/Kg	1	·		

QC Type:	LCS and LCS	D									
Parameter		LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
C6-C12		500	429	85.8	500	467	93.4	8.5	20	75-125	
>C12-C28		500	470	94	500	447	89.4	5	20	75-125	
>C28-C35	·	500	412	82.4	500	403	80.6	2.2	20	75-125	

QC Type: MS a	nd MSD											
QC Sample ID:	090704	90.01										
Parameter		Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec Ctr <b>l</b> Limit	Qual
C6-C12		BRL	500	450	89.1						75-125	
>C12-C28		BRL	500	453	90.5						75-125	
>C28-C35		BRL	500	376	75.2						75-125	

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Containers: VOA - 40 ml vial A/G - Amber/Glas	s 1 Liter		Preser	valives:	30-01	( ₁₀		HCI		HNO ₃	44 <u>-1</u>	-H ₂ SO ₄	1. 1.		Intact:	COLN	Initials	Q
4 oz/8 oz - glass wide mouth P/O - Plastic/othe	ar	-	100	-	OH-1	ASOH.	~ T =	Na ₂ S ₂ C	) ₃ X	Other_					444		ot accept verbal cha	$\leftarrow >$





Date: 07/22/09

A&B	JobID :	0907047	2	l Da	ite Received	1: 07/	17/2009		Time	Received :	2:50PM		
		CES Envi								<del></del>			
		20.1°C			mple pH:	N/A							
10.11	poracare .				mple pri .	.,,,,	<u> </u>						<del></del>
	<u> </u>			<u>=</u>	CI	heck Po	ints					Yes	No
1.	Cooler seal	nresent a	nd siane									N/A	
2.	Sample(s) i											11,77	X
3.	If yes, ice ir		-							•			X
4.	Sample(s) r		ith chair	n-of-custo	dy.				·			X	
5.	C-O-C signe					-	<del></del> _					Х	
6.	Sample(s) r	Sample(s) received with signed sample custody seal.								N/A			
7.	Sample con	Sample containers arrived intact. (If no comment).								X			
	Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Oth	er
8.	:		V										
9.	Sample(s) v	vere recei	ved in ap	propriate	container(s	s).						Х	,
10.	). Sample(s) were received with proper preservative							N/A					
11.								Х					
12.	2. Sample ID labels match C-O-C ID's								Х				
13.	Bottle count on C-O-C matches bottles found.							Х					
14.	Sample volu	ıme is suf	ficient fo	r analyses	requested.							Х	
15.	Samples we	re receive	d within	the hold	time.							Х	
16.	VOA vials co	ompletely	filled.									N/A	
17.	Sample acce	epted.										Х	
Com	ments : Inclu	de actions	s taken t	o resolve	discrepancie	es/probl	em:						
Sampl	le received with	nout coolan	t and abo	ve recomm	ended tempei	rature.							
Rece	ived by: Mg	gonzalez					Check in	n by/date :	Maonzale	ez / 07/17/20	09		
		,					3	. 2,, 2000					
Phone	: 713-453-60	60								w	ww.ablabs	com	

Page 9 of 9

Total Number of Pages:

Job ID: 09070419



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name: 0709-37-40 / DUCO

Report To:

Client Name:

Attn:

CES Environmental

Joe Camp

Client Address: 4904 Griggs Rd

City, State, Zip: Houston, Texas, 77021 P.O.#.: 0709-37-40

Sample Collected By: Joe Camp

Date Collected: 07/16/09

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
0709-37	Soil	09070419.01
0709-38	Soil	09070419.02
0709-39	Soil	09070419.03
0709-40	Soil	09070419.04



Released By: Shantall Carpenter

Title: Date: Project Manager 7/20/2009



This Laboratory is NELAP (T104704213-09-TX) accredited. Effective: 07/01/2009; Expires: 06/30/2010 Scope: Non-Potable Water, Drinking Water, Air, Solid, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client.

Date Received: 07/16/2009 13:00

Obhf!2!pgl:

#### LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID: 09070419

Date:

7/20/2009

i Definition

Back-Wt BRL cfu

Back Weight

**Below Reporting Limit** colony-forming units

Conc. D.F.

Concentration Dilution Factor Front Weight

Front-Wt LCS

Laboratory Check Standard

LCSD MS

Laboratory Check Standard Duplicate Matrix Spike

MSD MW

Matrix Spike Duplicate

Molecular Weight

Post-Wt ppm

Т

Post Weight parts per million Previous Weight Pre-Wt Qualifier

Q

RegLimit Regulatory Limit Relative Percent Difference

RPD **RptLimit** Reporting Limit SDL

Sample Detection Limit

surr Surrogate Time

TNTC Too numerous to count

Qualifier Definition



Job ID: 09070419

Date 7/20/2009

Attn: Joe Camp

CES Environmental Client Name:

Project Name: 0709-37-40 / DUCO

Client Sample ID: 0709-37

Job Sample ID: 09070419.01

Sample Matrix Soil

Date Collected: 07/16/09 12:00 Time Collected:

Other Information:

Test Method	, Parameter/Test Description	Result	Units	DF	Rpt Limit Reg Limit Q	Date Time	Analyst
TX 1005	Total Petroleum Hydrocarbons						
	C6-C12	BRL	mg/Kg	1	14.7	07/16/09 19:40	WS
	>C12-C28	BRL	mg/Kg	1	18.4	07/16/09 19:40	WS
	>C28-C35	BRL	mg/Kg	1	19,1	07/16/09 19:40	WS
	Total C6-C35	BRL	mg/Kg	1	names estambli militaks Arburus este entrus arburos arburet (5.500)	07/16/09 19:40	WS
	Chlorooctadecane(surr)	55 <b>.</b> 4	%	1	50-149	07/16/09 19:40	WS
	1-Chlorooctane(surr)	57.7	%	1	50-149	07/16/09 19:40	WS



Job ID: 09070419

Date 7/20/2009

Client Name: Project Name: CES Environmental

0709-37-40 / DUCO

Attn: Joe Camp

Client Sample ID: Date Collected: 0709-38 07/16/09 Job Sample ID:

09070419.02

Sample Matrix

Soil

Time Collected: 12:00
Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit Reg Limit Q	Date Time	Analyst
TX 1005	Total Petroleum Hydrocarbons						
	C6-C12	BRL	mg/Kg	1	14.7	07/16/09 20:02	WS
	>C12-C28	BRL	mg/Kg	1	18.4	07/16/09 20:02	WS
	>C28-C35	BRL	mg/Kg	1	19.1	07/16/09 20:02	WS
	Total C6-C35	BRL	mg/Kg	1		07/16/09 20:02	WS
	Chlorooctadecane(surr)	64.1	%	1	50-149	07/16/09 20:02	WS
	1-Chlorooctane(surr)	69.4	%	1	50-149	07/16/09 20:02	WS



Job ID: 09070419

Date 7/20/2009

CES Environmental Client Name:

Project Name: 0709-37-40 / DUCO

> Job Sample ID: 09070419.03

Attn: Joe Camp

Client Sample ID: 0709-39 Date Collected: 07/16/09 Time Collected:
Other Information: 12:00

Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit Reg Limit Q	Date Time	Analyst
TX 1005	Total Petroleum Hydrocarbons						
	C6-C12	BRL	mg/Kg	1	14.7	07/17/09 10:05	WS
	>C12-C28	BRL	mg/Kg	1	18.4	07/17/09 10:05	WS
	>C28-C35	BRL	mg/Kg	1	19.1	07/17/09 10:05	WS
	Total C6-C35	BRL	mg/Kg	1	au inageasta tha bhillionn a' bhainn a bhilliadh ann ann guide a cann ann ann ann ann a	07/17/09 10:05	WS
	1-Chlorooctane(surr)	98.6	%	1	50-149	07/17/09 10:05	WS
	Chlorooctadecane(surr)	89.2	%	1	50-149	07/17/09 10:05	WS

Clohf!6!pgl:



Job ID: 09070419

Date 7/20/2009

Attn: Joe Camp

Client Name: CES Environmental

Project Name: 0709-37-40 / DUCO

Client Sample ID: 0709-40
Date Collected: 07/16/09
Time Collected: 12:00

Other Information:

Job Sample ID: 09070419.04

Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit Reg Limit Q	Date Time	Analyst
TX 1005	Total Petroleum Hydrocarbons						
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	>C12-C28	BRL	mg/Kg	1	18.4	07/16/09 20:46	WS
	>C28-C35	BRL	mg/Kg	1	19.1	07/16/09 20:46	WS
	Total C6-C35	BRL	mg/Kg	1	gagyanik kilanananggangagang dalikilipitan nagrapganan da di 2000	07/16/09 20:46	WS
	Chlorooctadecane(surr)	53 <b>.</b> 4	%	1	50-149	07/16/09 20:46	WS
	1-Chlorooctane(surr)	67.6	%	1	50-149	07/16/09 20:46	WS

Clohf!7!pgl:



**Job ID**: 09070419

Date:

7/20/2009

Analysis: Total Petroleum Hydrocarbons

TX 1005 Method:

Reporting Units: mg/Kg

**QC Batch ID**: Qb09072001

**Created Date:** 07/20/09

Created By: Dshen

**Samples in This QC Batch:** 09070419.01,02,03,04

**Sample Preparation:** PB09072001

Prep Method: TX 1005

**Prep Date:** 07/16/09 15:40 **Prep By:** 

Dshen

QC Type: Method Blank						
Parameter CAS #	Result	Units	D.F.	RptLimit		Qual
C6-C12	BRL	mg/Kg	1	14.7		
>C12-C28	BRL	mg/Kg	1	18.4		
>C28-C35	BRL	mg/Kg	1	19.1		e e e e e e e e e e e e e e e e e e e
Total C6-C35	BRL	mg/Kg	1		-	

QC Type:	LCS and LCS	D			·			. <u> </u>			
Parameter		LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
C6-C12		500	576	115	500	551	110	4.4	20	75-125	
>C12-C28		500	557	111	500	548	110	1.6	20	75-125	
>C28-C35		500	584	117	500	593	119	1.5	20	75-125	

QC Type: MS a QC Sample ID:	nd MSD 090704	121.02			-							
Parameter	03070-	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
C6-C12		BRL	500	582	116					T	75-125	
>C12-C28		BRL	500	575	115						75-125	
>C28-C35		BRL	500	515	103	1					75-125	

Refer to the Definition page for terms.

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1 /	INQUISHED BY	DATE 7/16/09			D. RECE	IVEO E							D	NE	Til	ME	   	OWN H	\ZARDS/	COMMENT	S
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1   ¢ 2   ' 3		7/16/09		ЭМ 22	V. BEFE	Med è	YC.	$-\mathcal{Q}$	0				1	liels	10	D	Tempe	rature:	88	.2°c	is .
	ers: VOA - 40 ml vial A/G - Ar	······································		ЭМ 22		WED E		- <i>.</i> 0\			* 1	HINO ₃ Other	1	4	10	D		rature: Y or N	88 Initia	.2°c	

# **Sample Condition Checklist**



Date: 07/20/09

A&B	JobID: 09070419 Date Received: 07/16/2009 Time Received: 1:00PM		,
Clier	nt Name : CES Environmental		. ,
Tem	perature : 28.2°C Sample pH : n/a		
		•	
	Check Points	Yes	No
1.	Cooler seal present and signed.	N/A	
2.	Sample(s) in a cooler.		Х
3.	If yes, ice in cooler.		Х
4.	Sample(s) received with chain-of-custody.	Х	
5.	C-O-C signed and dated.	N/A	
6.	Sample(s) received with signed sample custody seal.	N/A	
7.	Sample containers arrived intact. (If no comment).	N/A	
8.	Matrix Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food	Oth	er
9.	Sample(s) were received in appropriate container(s).	X	
10.	Sample(s) were received with proper preservative	N/A	
11.	All samples were logged or labeled.	X	
12.	Sample ID labels match C-O-C ID's  Bottle count on C-O-C matches bottles found.	X	
13.	WWW.	X	
14. 15.	Sample volume is sufficient for analyses requested.  Samples were received within the hold time.	X	
16.	VOA vials completely filled.	N/A	
17.	Sample accepted.	X	
	ments : Include actions taken to resolve discrepancies/problem:		
	e cooling initiated in the field. Per Joe's email, change TAT to 2 day. 7/17/09 MG		
Rece	ived by: Ruwadia Check in by/date: Ruwadia / 07/16/2009		
hone	: 713-453-6060 www.ablabs	.com	

Cbhf!:!pgl:

## A & B Environmental Services, Inc.



# Invoice

10100 East Freeway, Suite 100 Houston, TX 77029 (713) 453-6060 DATE INVOICE # 7/20/2009 118764

COPY

BILL TO

CES Environmental Services, Inc Attn: Accounts Payable / Gary Brauckman 4904 Griggs Road Houston, TX 77021 CUSTOMER PROJECT AND NO.

Project # 0709-37383940

Duco **Seil** Sample: 07/16/09

Joe Camp

	P.O. N	UMBER	TERMS	DUE DATE	DATE REC.	ACCT. NO.	;	SAMPLE ID NO.
4 TPH-1005 TPH by Method 1005 - 2 Day Rush 87.50 350.0	0709-37	7383940	Due on receipt	7/20/2009	7/16/2009		09	070419.0104
	QUANTITY	ITEM CODE		V	PRICE E	ACH	AMOUNT	
	4	TPH-1005	TPH by Metho	8	7.50	350.00		
								•
				•		`		•
			,				. • • · ·	. ,
					<u>.</u>		2.	
						•	-	
Thank you for your business.  Total \$350.0	Thank you	ı for your b	usiness.			Tota	nl	\$350.00

Job ID: 09070419



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name: 0709-37-40 / DUCO

Report To:

Client Name:

**CES Environmental** 

Joe Camp

Client Address: City, State, Zip: Houston, Texas, 77021

4904 Griggs Rd

P.O.#.: 0709-37-40

Sample Collected By: Joe Camp

Date Collected: 07/16/09

A&B Labs has analyzed the following samples...

Attn:

Client Sample ID	Matrix	A&B Sample ID
0709-37	Soil	09070419.01
0709-38	Soil	09070419.02
0709-39	Soil	09070419.03
0709-40	Soil	09070419.04



Released By: Shantall Carpenter Project Manager

Title: Date:

7/20/2009



This Laboratory is NELAP (T104704213-09-TX) accredited. Effective: 07/01/2009; Expires: 06/30/2010 Scope: Non-Potable Water, Drinking Water, Air, Solid, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client.

Date Received: 07/16/2009 13:00

#### LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID: 09070419

Date:

7/20/2009

Lonoro	∣Term D	Ottoition
OCHE O		CHIMICH

Back-Wt

Back Weight

BRL cfu

**Below Reporting Limit** colony-forming units

Conc. D.F.

Concentration Dilution Factor

Front-Wt

Front Weight

LCS

Laboratory Check Standard

LCSD

Laboratory Check Standard Duplicate

MS

Matrix Spike

Qualifier Definition

MSD

Matrix Spike Duplicate

Molecular Weight

MW

Post-Wt

ppm Pre-Wt

Q

surr

T /

Post Weight parts per million Previous Weight

Qualifier

RegLimit Regulatory Limit RPD Relative Percent Difference

**RptLimit** Reporting Limit SDL Sample Detection Limit

Surrogate Time

**TNTC** Too numerous to count

Job ID: 09070419

Date 7/20/2009

Client Name:

CES Environmental

0709-37-40 / DUCO

Attn: Joe Camp

Project Name:

Job Sample ID: 09070419.01

Client Sample ID: Date Collected:

0709-37 07/16/09

Time Collected: Other Information: 12:00

Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit Reg Limit Q	Date Time	Analyst
TX 1005	Total Petroleum Hydrocarbons C6-C12	BRL	mg/Kg	1	14.7	07/16/09 19:40	WS
	>C12-C28	BRL	mg/Kg	1	18.4	07/16/09 19:40	WS
	>C28-C35	BRL	mg/Kg	1	19.1	07/16/09 19:40	WS
	Total C6-C35	BRL	mg/Kg	1		07/16/09 19:40	WS
	Chlorooctadecane(surr)	55.4	%	1	50-149	07/16/09 19:40	WS
	1-Chlorooctane(surr)	57.7	%	1	50-149	07/16/09 19:40	WS

Job ID: 09070419

Date 7/20/2009

Client Name: Project Name: CES Environmental

0709-37-40 / DUCO

Attn: Joe Camp

Client Sample ID:

0709-38

Job Sample ID:

09070419.02

Date Collected: Time Collected: 07/16/09

Soil

Other Information:

12:00

Sample Matrix

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit Re	eg Limit Q	Date Time	Analyst
TX 1005	Total Petroleum Hydrocarbons							
	C6-C12	BRL	mg/Kg	1	14.7		07/16/09 20:02	WS
	>C12-C28	BRL	mg/Kg	1	18.4		07/16/09 20:02	WS
ı	>C28-C35	BRL	mg/Kg	1	19.1		07/16/09 20:02	WS
	Total C6-C35	BRL.	mg/Kg	1			07/16/09 20:02	WS
	Chlorooctadecane(surr)	64.1	%	1	50-149		07/16/09 20:02	WS
	1-Chlorooctane(surr)	69.4	%	1	50-149		07/16/09 20:02	WS

Job ID: 09070419

Date 7/20/2009

Client Name: Project Name: CES Environmental

0709-37-40 / DUCO

Attn: Joe Camp

Client Sample ID: 0709-39

Job Sample ID: 09070419.03

Date Collected: Time Collected:

07/16/09 12:00

Sample Matrix

Other Information:

Rpt Limit Reg Limit Q	Date Time	Analy
14 7		W/S

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit Reg Limit Q	Date Time	Analyst
TX 1005	Total Petroleum Hydrocarbons						
	C6-C12	BRL	mg/Kg	1	14.7	07/17/09 10:05	WS
	>C12-C28	BRL	mg/Kg	1	18.4	07/17/09 10:05	WS
ı	>C28-C35	BRL	mg/Kg	1	19.1	07/17/09 10:05	WS
	Total C6-C35	BRL	mg/Kg	1		07/17/09 10:05	WS
	1-Chlorooctane(surr)	98.6	%	1	50-149	07/17/09 10:05	WS
	Chlorooctadecane(surr)	89.2	%	1	50-149	07/17/09 10:05	WS

Job ID: 09070419

Date 7/20/2009

Client Name: CES Environmental

Project Name: 0709-37-40 / DUCO

09070419.04

Attn: Joe Camp

0709-40

07/16/09

Job Sample ID:

Sample Matrix

Time Collected: Other Information:

Client Sample ID:

Date Collected:

12:00

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit Reg Limit Q	Date Time	Analyst
TX 1005	Total Petroleum Hydrocarbons						
	C6-C12	BRL	mg/Kg	1	14.7	07/16/09 20:46	WS
	>C12-C28	BRL	mg/Kg	1	18.4	07/16/09 20:46	WS
	>C28-C35	BRL	mg/Kg	1	19.1	07/16/09 20:46	WS
	Total C6-C35	BRL	mg/Kg	1		07/16/09 20:46	WS
	Chlorooctadecane(surr)	53.4	%	1	50-149	07/16/09 20:46	WS
	1-Chlorooctane(surr)	67.6	%	1	50-149	07/16/09 20:46	WS



Job ID: 09070419

Date:

7/20/2009

Analysis: Total Petroleum Hydrocarbons

Method:

TX 1005

Reporting Units: mg/Kg

**QC Batch ID**: Qb09072001

Created Date: 07/20/09

Created By: Dshen

**Samples in This QC Batch:** 09070419.01,02,03,04

**Sample Preparation:** PB09072001

Prep Method: TX 1005

Prep Date: 07/16/09 15:40 Prep By:

Dshen

QC Type: Method Blank							
Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
C6-C12 >C12-C28		BRL	mg/Kg	1	14.7		
>C12-C28		BRL	mg/Kg	1	18.4	1	
>C28-C35 Total C6-C35	}	BRL	mg/Kg mg/Kg mg/Kg	1	19.1	1	
Total C6-C35		BRL	mg/Kg	1		 	

QC Type:	LCS and LCS	D			:						
Parameter		LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
C6-C12		500	576	115	500	551	110	4.4	20	75-125	
>C12-C28		500	557	111	500	548	110	1.6	20	75-125	
>C28-C35		500	584	117	500	593	119	1.5	20	75-125	

QC Type: MS and MSD													
QC Sample ID:	09070421.02												
Parameter	Sampl Resul		MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual		
C6-C12	BRL	500	582	116						75-125			
>C12-C28	BRL	500	575	115						75-125			
>C28-C35	BRL	500	515	103						75-125			

Refer to the Definition page for terms.

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& B Labs Chai	in of Custody	11101-	Custody is a Lega	l Document	Page of		
10000 East Fwy (I-10) Ste. 100 Houston, TX 77029		Epuronmental col		NVOICE TO:	3. PO# 0709-3 <b>7</b> 383940		
13-453-6060		$\sim N$ . O $\gamma$	mpany:		4. Turnaround Time (Business Days)		
1-877-478-6060 Toll Free 713-453-6091 Fax		n. 777021			☐ 1 Day* ☐ Other		
ablabs.com	Contact: Joe	Como	ntact:		□ 2 Days*		
A&BUOBID#		21-7 1 0/11	one:		☐ 3 Days* *Surcharge applies		
09070414	Fax:	Fax		1	7 Days - Standard		
5. Project # 0709 - 37383940	E-mail: & Car	10 6) CEZENVIONMORTO	ha i: □	$\sqrt{}$	Days - Standard		
6. Project Name/Location			13. 14. Containe		1		
Duco		. •	15. Preserva 16. PH-Lab 0				
7. Reporting Requirement:			16. PH-Lab C	Offig	<del>-}-}-}</del>		
☐ TRRP Limits only ☐ TRRP Rpt. Package ☐ See	Attached		ຍ   17.				
8. Sampler's Name & Company (PLEASE PRINT)	Sampler's Signature &	Date	No. of Containers	·/ / / /			
Joe Camp, CET Frygor	innertal :	7/16/	$09 \begin{vmatrix} 2 \\ 1 \end{vmatrix}$				
9. Sample ID and Description	10. Sampling	11 12. Matrix	Š. K.	////			
	Date Time	Comp. Grab. Soil Soil Sludge	Office Office		/ / /		
			<b>a b b c c c c c c c c c c</b>		18. REMARKS		
OIA 0709-37	7/16/09 12:00	$\mathbb{R}_{M} \mid X \mid X \mid X \mid X$					
029 0709-38	7/16/09 12:0		$ \iota  \times$				
039 0709 -39	7/16/09 12:0	M X X	1×				
MM 0709-40	7/16/09 12:0	m X X					
	——————————————————————————————————————						
19. RELINQUISHED BY	DATE TIME	20. RECEIVED BY		DATE TIME	22. KNOWN HAZARDS/COMMENTS		
1	7/16/09 1:00 PM	Y .					
	7 (0/0 ( ) 1 / 1 / 1						
3		24. BECEWED BY LABORAT	ORY	7/16/09 100	Temperature: 28.2°C		
L. L. L	per/Glass 1 Liter	**Preservatives: C - Cool	H - HCI N - HNO ₃	S-H,SO ₄	Intact: Y or N Initials		
4 oz/8 oz - glass wide mouth P/O - Pla	stic/other	OH - NaOH BILL OF LADING/TRACKING	T - Na ₂ S ₂ O ₃ X - Other _	A&B cannot accept verbal changes			
METHOD OF SHIPMENT		Please FAX written changes to 713-453-6091					
LAB USE ONLY SAMPLING ———— F	Samples will be disposed of after 30 days A&B reserves the right to return samples						

Sent: Fri 7/17/2009 9:04 AM

**Katie Isom** 

ogology

From: To: Joe Camp [jcamp@cesenvironmental.com]

Katie Isom

Cc:

Jennifer Rust

Subject:

change of turnaround time....

**Attachments:** 

Yesterday I submitted 4 samples of soil to be tested for TPH. The sample numbers are 0709-37, 0709-38, 0709-39, and 0709-40. My customer initially requested standard turnaround time and now they want 1 day turnaround. I indicated standard turnaround on the chain of custody. Could you please change this and give us a 1 day turnaround?

Thanks,

## Joe Camp

Account Manager

CES Environmental Services, Inc.

713-367-8601 (cell)

713-676-1676 (fax)

jcamp@cesenvironmental.com



# **Sample Condition Checklist**

Date: 07/20/09

A&B	JobID :	090704:	19	Da	te Received	: 07/	16/2009	<del>,</del>	Time	Received :	1:00PM		
Clier	nt Name :	CES Env	ironmen	tal									
Tem	perature :	28.2°C		Sa	mple pH:	n/a		,	_				
				<u>**</u>	=							_	
					Cl	neck Po	ints					Yes	No
1.	Cooler sea	ıl present a	nd signed	i.	···							N/A	
2.	Sample(s)	in a coole	r.										Х
3.	If yes, ice	in cooler.											Х
4.	Sample(s)	received v	with chain	-of-custo	dy.							Х	
5.	C-O-C sigi	ned and da	ted.									N/A	
6.	Sample(s) received with signed sample custody seal.											N/A	
7.	Sample co	ntainers a	rrived inta	ct. (If no	comment).							N/A	
8,	Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Oth	er
	<u> </u>	<u> </u>											
9.	Sample(s)	were rece	ived in ap	propriate	container(s	).				<del></del>		X	
10.	Sample(s) were received with proper preservative											N/A	
11.	All samples were logged or labeled.											X	
12.	Sample ID labels match C-O-C ID's										Х		
13.	Bottle cou	nt on C-O-	C matches	bottles f	ound.		<del></del>				·	Х	
14.	Sample vo	lume is su	fficient fo	r analyses	requested.							Х	
15.	Samples v	vere receiv	ed within	the hold t	time.							Х	
16.	VOA vials	completely	filled.									N/A	
17.	Sample ac	cepted.										Х	
					discrepancie			· <del>·</del>					
amp	e cooling init	iated in the	field. Per J	loe's email,	change TAT	to 2 day.	7/17/09 MG						
		<u></u>						-					
Rece	ived by :	Ruwadia					Check in	by/date :	Ruwadia	/ 07/16/2009	9		
							CHECK	. Sylvate .	TOPPOUL	, 01,10,200	-		
				70									
าดทอ	: 713-453-6	5060						· <u></u>	· <u> </u>	14	www.ablabs	com	

Page 9 of 9





10100 East Freeway, Suite 100 Houston, TX 77029 (713) 453-6060

DATE	INVOICE #
7/22/2009	118832

**BILL TO** 

CES Environmental Services, Inc Attn: Accounts Payable / Gary Brauckman 4904 Griggs Road Houston, TX 77021 CUSTOMER PROJECT AND NO.

**⊅**uco, Inc. (Off Sheldon Rd.)

Sample: 07/17/09

Joe Camp



P.O. N	UMBER	TERMS	DUE DATE	DATE REC.	AC	CT. NO.		SAMPLE ID NO.	
070	9-41	Due on receipt	7/22/2009	7/17/2009			(	09070472.01	
QUANTITY	ITEM CODE		DESCRIPTION	N		PRICE EA	ACH	AMOUNT	
		Chromium, Le Mercury - 3 Da TCLP Benzen	CLP Metals - Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver, & Mercury - 3 Day Rush CLP Benzene - 3 Day Rush TPH by Method 1005 - 3 Day Rush 75.06						
Thank you	ı for your b	usinoss							
mank you	ı for your bı	uəii 1655.				Tota		\$367.50	

Job ID: 09070472



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name:

0709-41 / Tuco, Inc. (Off Sheldon Rd)

Report To:

Client Name: Attn:

**CES Environmental** 

Joe Camp

Client Address: City, State, Zip: 4904 Griggs Rd

Houston, Texas, 77021

P.O.#.: 0709-41

Sample Collected By: Durim T.

Date Collected: 07/17/09

A&B Labs has analyzed the following samples...

Client Sample ID

Matrix

A&B Sample ID

0709-41 / Diesel Spill Dig

Soil

09070472.01



Released By: Shantall Carpenter

Title: Date: Project Manager 7/22/2009



This Laboratory is NELAP (T104704213-09-TX) accredited. Effective: 07/01/2009; Expires: 06/30/2010 Scope: Non-Potable Water, Drinking Water, Air, Solid, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports.

I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client.

Date Received: 07/17/2009 14:50

### LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID: 09070472

Date:

7/22/2009

Gene			

Back-Wt **Back Weight** BRL **Below Reporting Limit** cfu colony-forming units Conc. Concentration D.F. Dilution Factor Front-Wt Front Weight

LCS Laboratory Check Standard

LCSD Laboratory Check Standard Duplicate MS Matrix Spike

MSD MW Molecular Weight

Matrix Spike Duplicate

Post-Wt Post Weight ppm parts per million

Pre-Wt Previous Weight Q Qualifier

RegLimit Regulatory Limit RPD Relative Percent Difference

**RptLimit** Reporting Limit SDL Sample Detection Limit

Surrogate surr Time Т

Too numerous to count **TNTC** 

Qualifier Definition

S5

Target compounds caused elevation of baseline. Surrogate not calculated

#### LABORATORY TEST RESULTS

Job ID: 09070472

Date 7/22/2009

Client Name:

CES Environmental

0709-41 / Tuco, Inc. (Off Sheldon Rd)

Attn: Joe Camp

Client Sample ID:

Project Name:

0709-41 / Diesel Spill Dig

Date Collected:

07/17/09

Job Sample ID: 09070472.01

10:00

Time Collected: Other Information: Sample Matrix

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit Q	Date Time	Analyst
SW-846 6010C	TCLP Metals							
	Arsenic	BRL	mg/L	1	0.04	5.0	07/21/09 18:02	ΤK
	Barium	0.445	mg/L	1	0.04	100.0	07/21/09 18:02	TK
	Cadmium	BRL	mg/L	1	0.04	1.0	07/21/09 18:02	TK
	Chromium	BRL	mg/L	1	0.04	5.0	07/21/09 18:02	TK
	Lead	BRL	mg/L	1	0.04	5.0	07/21/09 18:02	ΤK
	Selenium	BRL	mg/L	1	0.1	1.0	07/21/09 18:02	TK
	Silver	BRL	mg/L	1	0.04	5.0	07/21/09 18:02	TK
SW-846 7470A	TCLP Metals, Mercury							
	Mercury	BRL	mg/L	1	0.0005	0.2	07/21/09 15:45	SS
SW-846 8021B	TCLP BTEX & MTBE							
	Benzene	BRL	mg/L	1	0.002	0.5	07/21/09 12:17	HK
	Trifluorotoluene(surr)	83.8	%	1	75-125		07/21/09 12:17	HK
TX 1005	Total Petroleum Hydrocarbons							
	C6-C12	32.4	mg/Kg	1	14.7		07/20/09 16:57	WS
	>C12-C28	396	mg/Kg	1	18.4		07/20/09 16:57	WS
	>C28-C35	BRL	mg/Kg	1	19.1		07/20/09 16:57	WS
	Total C6-C35	428.4	mg/Kg	1			07/20/09 16:57	WS
	1-Chlorooctane(surr)	98.5	%	1	50-149		07/20/09 16:57	WS
	Chlorooctadecane(surr)	N/A	%	1	50-149	S5	07/20/09 16:57	WS



**Job ID**: 09070472

Date:

7/22/2009

Analysis : TCLP Metals

Method:

SW-846 6010C

Reporting Units: mg/L

**QC Batch ID**: Qb09072144

**Created Date:** 07/21/09

Created By: Tkhuc

Samples in This QC Batch: 09070472.01

PB09072136

Prep Method: SW-846 3010A

**Prep Date:** 07/21/09 11:00 **Prep By:** 

Tkhuc

Digestion: TCLP Prep:

PB09072107

Prep Method: SW-846 1311

**Prep Date:** 07/20/09 16:50 **Prep By:** 

Sgarcia

QC Type: Method Blank										
Parameter	CAS#	Result	Units	D.F.	RptLimit	(				
Arsenic	7440-38-2	BRL	mg/L	1	0.04					
Barium	7440-39-3	BRL	mg/L	1	0.04	1				
Cadmium	7440-43-9	BRL	mg/L	1	0.04					
Chromium	7440-47-3	BRL	mg/L	1	0.04					
Lead	7439-92-1	BRL	mg/L	1	0.04					
Selenium	7782-49-2	BRL	mg/L	1	0.1					
Silver	7440-22-4	BRL	mg/L	1	0.04					

QC Type:	LCS and LCSI	D			٠					<del>* * * * *</del> · · · · · · · · · · · · · · ·	-111
Parameter		LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Arsenic		2	1.956	97.8	2	1.951	97.6	0.3	20	80-120	
Barium		2	2.014	101	2	2.011	101	0.2	20	80-120	
Cadmium		2	1.939	97	2	1.938	96.9	0	20	80-120	
Chromium		2	1.988	99.4	2	1.991	99.6	0.2	20	80-120	
Lead		2	1.996	99.8	2	1.996	99.8	0	20	80-120	
Selenium		2	1.886	94.3	2	1.882	94.1	0.2	20	80-120	
Silver		2	1.921	96.1	2	1.923	96.2	0.1	20	80-120	

QC Type: MS a	QC Type: MS and MSD												
QC Sample ID:	090704	472.01											
Parameter		Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual	
Arsenic		BRL	2	2.218	110						45-138		
Barium		0.445	2	2.324	94						39-135		
Cadmium		BRL	2	2.108	105						56-125		
Chromium		BRL	2	1.964	97.9						52-125		
Lead		BRL	2	1.746	87.1						55-125		
Selenium		BRL	2	2.171	108						18-137		
Silver		BRI	1 2	2.175	109						26-148		

Refer to the Definition page for terms.



**Job ID**: 09070472

Date:

7/22/2009

Analysis: TCLP Metals, Mercury

Method:

SW-846 7470A

Reporting Units: mg/L

**QC Batch ID**: Qb09072148

Created Date: 07/21/09

Created By: Ssrinivasan

Samples in This QC Batch: 09070472.01

PB09072141

Prep Method: SW-846 7470A

**Prep Date:** 07/21/09 10:30 **Prep By:** 

Ssrinivasan

Digestion: TCLP Prep:

PB09072107

Prep Method: SW-846 1311

**Prep Date:** 07/20/09 16:50 **Prep By:** 

Sgarcia

QC Type: Method Blank Parameter	CAS#	Result		D.F.	RptLimit	Qual
Mercury	7439-97-6	BRL	mg/L	1	0.0005	

QC Type:	LCS and LCSI	)	:	4.3									
Parameter		LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual		
rai ai iletei.		Shk wagea	Result	70 KEL	Spk Added	Result	70 KEC	KPD	CHILITRE	Cullilliu	Quai		
Mercury		0.005	0.0047	94.8	0.005	0.0047	93.2	1.7	20	71-143			

QC Type: MS and I QC Sample ID: 09											
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Mercury	BRL	0.005	0.0049	97.4						61-175	



**Job ID**: 09070472

Date:

7/22/2009

Analysis: TCLP BTEX & MTBE

Method:

SW-846 8021B

Reporting Units: mg/L

**QC Batch ID**: Qb09072204

Created Date: 07/22/09

Created By: Hkhuc

Samples in This QC Batch: 09070472.01

Sample Preparation:

PB09072202 Prep Method: SW-846 5030C **Prep Date:** 07/21/09 10:30 **Prep By:** 

Hkhuc

**TCLP Prep:** 

PB09072107

Prep Method: SW-846 1311

**Prep Date:** 07/20/09 16:50 **Prep By:** Sgarcia

QC Type: Method Blank Parameter	CAS#	Result	Units	D.F.	RptLimit	Qual
Benzene	71-43-2	BRL	ma/L	1	0.002	

QC Type: LCS and LCS	D			31 37 4		•			
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit Qual
Benzene	0.02	0.021	105	0.02	0.022	110	4.6	30	79.1-123

QC Type: MS and	MSD									
QC Sample ID: 09	9070518.02									
	Sample	MS	MS	MS	MSD	MSD	MSD		RPD	%Rec
Parameter	Result	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit Qual
Benzene	BRL	0.02	0.02	99.8						65-143



**Job ID**: 09070472

Date:

7/22/2009

Analysis: Total Petroleum Hydrocarbons

Method:

TX 1005

Reporting Units : mg/Kg

...

**QC Batch ID**: Qb09072207

Created Date: 07/22/09

Created By: Dshen

Samples in This QC Batch: 09070472.01

Sample Preparation: PB09072205

Prep Method: TX 1005

Prep Date: 07/20/09 12:00 Prep By:

: Dshen

QC Type: Method Blank					
Parameter	CAS # Resul	lt Units	D.F.	RptLimit	
C6-C12 >C12-C28	BRL	mg/Kg	1	14.7	
>C12-C28	BRL	mg/Kg	1	18.4	ļ
>C28-C35 Total C6-C35	BRL	mg/Kg	1	19.1	ŀ
Total C6-C35	BRL	mg/Kg mg/Kg mg/Kg mg/Kg	1		

QC Type:	LCS and LCSI	)					_			· · · · · · · · · · · · · · · · · · ·	
Parameter		LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
C6-C12		500	429	85.8	500	467	93.4	8.5	20	75-125	
>C12-C28		500	470	94	500	447	89.4	5	20	75-125	
>C28-C35		500	412	82.4	500	403	80.6	2.2	20	75-125	

QC Type: MS a												
QC Sample ID:	090704	190.01										
Parameter		Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
C6-C12	-	BRL	500	450	89.1						75-125	
>C12-C28	١	BRL	500	453	90.5				1	1	75-125	
>C28-C35		BRL	500	376	75.2						75-125	

ABENED BY AB J-17-09																	/	,
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7. Reporting Requirement:	SON RD.									PH-Lab								
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☐ TRRP Limits only ☐ TRRP Rpt. Package ☐ See Atta 8. Sampler's Name & Company (PLEASE PRINT)	Sampler's Signa		Date					-   :	17.	,	s / 0	NX.	,				/ /	
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LAB USE 9. Sample ID and Description	10. Sam	pling	11.	12.	N	//atrix				1488 Z	<b>V</b> O/ <b>X</b>		./			/ /		
	Date	Time	Comp. Grab	Water	Sludge	Oil	Air		_ \ \		(v)/		/ /	/	/ /			
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19. RELINQUISHED BY	DATE	TIME	20. REC	EIVED	BY						D	ATE	TIN	ME	22. KNC	WN HAZ	ZARDS/CO	MMENTS
1	7/17/2	U.508																_
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3			21. REC		PV/\$	ROD	YTORY						1149	$\mathcal{L}$	iember	) )	•	_ 0 _ クヘン
*Containers: VOA - 40 ml vial A/G - Amber/0 4 oz/8 oz - glass wide mouth P/O - Plastic/			**Preserv	alives:	OH - N	ol) (		ICI a ₂ S ₂ 0		N - HNO ₃ ( - Other	s	-¶H₂SO₄	,		Intact:	or N	Initials _	118
4 oz/8 oz - glass wide mouth P/O - Plastic/	ouiei		BILL OF	LADIN	IG/TR/	ACKIN			3						Plea		not accept veri	bal changes to 713-453-609
LAB USE ONLY SAMPLINGREN	ITAL	P/	U												Sa	amples will	be disposed	of after 30 days

## **Sample Condition Checklist**



Date: 07/22/09

A&B	JobID: 09	9070472	ŀ	Da	te Received	: 07/	17/2009		Time	Received :	2:50PM		
Clier	nt Name : CI	ES Envir	onmen	tal					<u> </u>				
Tem	perature : 20	0.1°C		Sa	mple pH:	N/A	1						
				-									
					Ch	eck Po	oints					Yes	No
1.	Cooler seal pr	resent and	d signe	d.				·				N/A	·
2.	Sample(s) in	a cooler.											Х
3.	If yes, ice in o	cooler.											Х
4.	Sample(s) red	ceived wit	th chair	-of-custo	dy.							х	
5.	C-O-C signed	and date	d.									х	
6.	Sample(s) red	ceived wit	th signe	d sample	custody sea	ıl.						N/A	
7.	Sample conta	iners arri	ved int	act. (If no	comment).							х	
8.	l <u>.</u>	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Oth	
			<u> </u>										
9.	Sample(s) we	re receive	ed in ap	propriate	container(s	).						Х	
10.	Sample(s) we	re receive	ed with	proper pi	eservative							N/A	
11.	All samples w	ere logge	d or lai	oeled.								Х	
12.	Sample ID lab	oels matc	h C-O-C	ID's	<u> </u>							Х	
13.	Bottle count on C-O-C matches bottles found.										Х		
14.	Sample volume is sufficient for analyses requested.										Х		
15.	Samples were	e received	within	the hold	time.							Х	
16.	VOA vials com	pletely fi	lled.									N/A	
17.	Sample accep	ted.										X	
	ments : Include						lem:						
Sampl	le received witho	ut coolant	and abo	ve recomm	ended temper	ature.							
											-		
Rece	eived by: Mgo	nzalez					Check in	by/date:	Mgonzale	ez / 07/17/20	09		
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													-
<b>'</b> hone	: 713-453 <b>-</b> 6060	0								w	ww.ablabs	.com	

Page 9 of 9

The Chain of Custody is a Legal Document

13. 14. Containers*
15. Preservatives**

of Containers

17.

16. PH-Lab Only

Company:

Address:

Contact:

Phone:

Fax: 🗖

INVOICE TO:

ONBY.

Page

17109-74-3K39410

Other

*Surcharge applies

4. Turnaround Time (Business Davs)

3. **PO**#

□ 1 Day*

☐ 2 Davs*

☐ 3 Days*

**¹**7 Davs - Standard

Chain of Custody

Company:

Address:

Contact:

Phone:

Fax: 🗆

E-mail: 🖾

Sampler's Signature & Date

REPORT TO:

Handon the 77mal

COUND"

Ganci Grider Roi

Environmental

COMO O COLOMINOME DE MAIL D

A & B Labs

A&B JOB ID#

Duco

7. Reporting Requirement:

5. Project #

10100 East Fwy (I-10) Ste. 100

☐ TRRP Limits only ☐ TRRP Rpt. Package ☐ See Attached ☐ Standard Level II

Houston, TX 77029

713-453-6091 Fax ablabs.com

8. Sampler's Name & Company (PLEASE PRINT)

1-877-478-6060 Toll Free

713-453-6060

0709 - 37383941) 6. Project Name/Location

Marigner

H

MAIL INVOICE DNIY

HO MORGANCHY, LA

SEND COPY BINVOICE

ALL BACKUP PAPERLUDER

Mail to GENERATOR'S

Address: 16255 Port Northwest

HOUSTON, TX 770

MUST HAVE PO#!

Customer Special Requests/Requir	ements	
P.O. Required:		□ N
4% City of Houston Fee: 🔟 📉 N 4-hr Minimum	1: L4 Y	□ N
Job Estimate		
Dr. H	CES Cost	Customer Charge
PO# TRANT (ES Del'V TOTES 2.75 m  9.59. FSC  Sale of Total  Substant		1115
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9.87.00		1
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4/18

EPAHO081002050

# CES Environmental Services, Inc. Profit & Loss Sheet

CONFIDENTIAL

CONFIDENTIAL

Billing/AP Information  Name: DCCONCING INMOTIME Contact: Stanky Suark W Address: JU 255 Port COMMUS Sitt 200 Hovston, JX  Phone: (832) 447-7484  P.O Required: Y: N: City of Houston: Y: N:	
Base Oils Black Oils Light Ends Glycols	Emulsion Oils (>70% oil) Emulsion Oils (50%-70% oil)  Job Estimate
Management of White Transportation (25) Total for white (25)	(5) # 20) gwl # 70/ lww # 75/7P
Customer Spe	cial Request/Requirement

CONFIDENTIAL



## PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):
\$.20 / gallon
2. Contamination Limit (maximum limit before surchages apply):
3. Surcharge Pricing:
4. Special Testing Requirements:
5. Treatment and Handling Protocol:
WWTP after filtering solids
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



## PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovere	d/Recycled (if applicable):	
8. Management for Product R	ecovered/Recycled (if applicable)	
8. Management for Product R	ecovered/Recycled (if applicable)	
8. Management for Product R	ecovered/Recycled (if applicable)	
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8. Management for Product R	ecovered/Recycled (if applicable)	

AU Empty totes
payist when
involve when



4904 Phone (7 U.S. EPA ID Number:	onmental Serv Griggs Road, I 713) 676-1460 TXD008950462 trial Solid Wast	Houston, TX 77 Fax: (713) 67 L ISWR Nu	7021 76-1460 Imber: 3	<u> </u>	24 Pho	Environmental Ser 420 S. Gulfway Dr. one (713) 676-146 Number: TXR0000	, Port Arthui 60 Fax: (713	r, TX 77641	, 0	8585	
CECTION 4. C-		•_									
SECTION 1: Genera											
· · · · · · · · · · · · · · · · · · ·	eering Interna				<del></del>						
	Port Northwe	est, Suite 200			TV						
City: Housto				_State:	TX		Zip:	****			
	/ Suarez	7 7604			_Title:						
Phone Number:		57-7684			_Fax Numbe	er:					
24/hr Phone Numb		z@oceaneeri	ng.com	<u> </u>	-						
US EPA ID No:	TXCESO	<del></del>									
State ID No:	CESQG	_			SIC Code:					,	
Company: Oceane	Address:										
City: Morgan	n City	····		State:	LA		Zip:				
Contact:					Title:						
Phone Number:		_		<del>-</del>	Fax Numbe	er:					
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SECTION 3: Genera	l Description	of the Wast	e								
			_								
Name of Waste:	Rinsew	ater									
Detailed Description	n of Process (	Generating V	Vaste:				· · ·				
•											
Rinsewater from the	e cleaning flo	or of new off	ice buil	lding							
							<del></del>				
Physical State:	✓ Liquid		П	Sludge	Г	٦	Powder				
	Solid		Ħ	Filter Cake	Ē	╡	Combination				
Color: dark gre	ev				Odor:		Faint detergen	t			
<u> </u>				•							
Specific Gravity (wa	ter=1):			1			Density:	8.34 lbs,	/gal		
				····	•			<del></del> '	ŭ		
Does this material c	ontain any to	otal phenolic	compo	ounds?	□ Y	es/	✓ No				
	•	•	•		_						
Does this material c	ontain any p	ara substitut	ed phe	nolic comp	ounds?		Yes	√ No			
			Ť	•			_				
Is the Waste subject	to the benze	ene waste or	eratio	n NESHAP?	(40 CFR Par	t 6	1, Subpart FF)	_	Yes		No
Answer "Yes" if your								e following			
	2813	2816	2819	2821		22		2824	2833		2834
	2836	2841	2842	2843		44		2861	2865		2869
	2874	2876	2879	2891		92		2896	2899		2911
	4953	4959	9511	2001	20		2000		_0,,		4. J. 4. 4.
Layers:											
Layers.	Single-phase	e 🗆	Multi-	phase							
Layers.	Single-phase	e 🗆	Multi-	-phase	·						
Container Type:	Single-phase	Tote	_	_	Other (expl	ain	n)				
Container Type:	☐ Drum	<b>✓</b> Tote		Truck 🗌	Other (expl	ain	n)				
. –	☐ Drum	<b>✓</b> Tote		Truck 🗌		ain	n)				

If "Yes", t  If "Yes", Characteris	hen please com	] D001 (Ignitab	ole) D004	erlying Haz  D002 (Co	05 🗍 D00	onts Form atta	ctive)	□ D009	
		d waste or mi st ALL applicat		?	☐ Ye	s 🗸	No		
40 CFR 261	.33(e) or (f)?	duct or spill cle st ALL applicat	□ Y		y a "U" or "P" w ☑ No	aste code ui	nder		
Texas State	: Waste Code	Number:		CESQ113	1		_		
Proper US	OOT Shipping	Name:	Non-Hazard	lous, Non-	Regulated Wate	er .			
Class:	N/A	_UN/NA:	N/A	PG:	N/A	RQ:	N/A		
Flas	h Point	p	———	Rear	tive Sulfides	Reactive	Cyanides	Soli	ids
	140	9-:		0	mg/l	0	mg/l	5-15	%
Oil &	Grease	тс	C		Zinc	Co	pper	Nicl	kel
<1500	mg/l	>1500	mg/l	.01	mg/l	.17	mg/i	BRL	mg/l
	CON	Chemical Data	BLE			CONCENT			UNITS
Th	ne waste cons	ists of the follo	wing materia	als		Ranges are	<u>.</u>		or %
		Water				55-			%
		Soap				1-2			%
	Concrete	bits / dust / d	irt / grit			5-2	<u>'5</u>		%
					+ -				
					-				
					1				

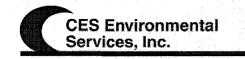
<b>SECTION 5:</b>	Safety Relat	<u>ed Data</u>						
If the handl	ing of this wa	ste requires the use of spec	cial protective equipme	nt, please explain.				
Level D	J							
	3 . 7		.,	······································	<del></del>			
<del></del>	<del> </del>	<del></del>	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	, , - , , - , - , - , - , -			
	· · · · · · · · · · · · · · · · · · ·	pporting Documents						
List all docu	ments, notes	, data and/or analysis attac	hed to this form as part	of the waste				
approval pa	ckage.	Sample ID 0609-44			<del></del>			
SECTION 7:	Incompatibi	lities						
Please list A	LL incompati	bilities (if any):						
none know	•	······································						
			·					
SECTION 8:	Generator's	Knowledge Documentation	<u>n</u>					
Laboratory	analysis of the	e hazardous waste characte	 eristics, listed below, <b>W</b> A	AS NOT PERFORMED				
		generator knowledge:	ouros, notea perott, ttr					
zacca apor.		, Barrarator MilotricaBer						
TCLP Metals	s:	BRL						
TCLP Volatil	es:	BRL						
TCLP Semi-\	/olatiles:	BRL						
Reactivity:	oldenes.	Non-Reactive						
•		Non-Corrosive						
Corrosivity:								
Ignitability:		>140F			<del></del>			
SECTION O. 1	Macta Bacaint	Classification Under 40 CER 4	127 (Prtaining to Bro Troop	tment Requirements for Centralized Was	to Trootmont			
Facilities)	vaste neceipt	Classification onder 40 CFR 4	57 (Fitanning to Fie-fiea	thent Requirements for Centralized Was	te Heatment			
	Is this materia	al a wastewater or wastewate	er sludge?	✓ YES NO				
		omplete this section.	•					
	PLEASE CHEC	K THE APPROPRIATE BOX. IF	NO APPROPRIATE CATEG	ORY, GO TO THE NEXT PAGE.				
Metals Subco	ategory : Subp	art A						
	Spent electro	plating baths and/or sludges						
	Metal finishin	g rinse water and sludges						
	Chromate wa							
님		control blow down water and	sludges					
님	Spent anodizi							
님	Incineration v							
님	Waste liquid	•	C /1					
		aining wastes greater than 13 nd bases with or without met						
				ing or phosphating operations				
		urring wastewater	orations from electropiat	ing or phosphating operations				
		cid solutions used to clean m	etal parts or equipment					
Oils Subcated	<u>yory</u> : Subpart	В						
H	Used oils	ulsions or mixtures						
H	Lubricants	naiona or mixtures						
==	Coolants							
		groundwater clean-up from	petroleum sources					
	Used petrole		p = 1. 0   Cum   30   1   Cu					
	Oil spill clean-							
ñ	Bilge water	•						
	•	aters from netroleum sources	<b>s</b>					

	] Interceptor wastes
	Off-specification fuels
	Underground storage remediation waste
	Tank clean-out from petroleum or oily sources
	] Non-contact used glycols
	Aqueous and oil mixtures from parts cleaning operations
	Wastewater from oil bearing paint washes
Organics Sub	<u>beategory</u> : Subpart C
	_ Landfill leachate
<u>_</u>	Contaminated groundwater clean-up from non-petroleum sources
	Solvent-bearing wastes
	Off-specification organic product
	Still bottoms
	Byproduct waste glycol
<u> </u>	Wastewater from paint washes
L	Wastewater from adhesives and/or epoxies formulation
[~	Wastewater from organic chemical product operations
Ľ	Tank clean-out from organic, non-petroleum sources
(1)	
	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)	
	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in
	excess of the values listed below, the waste should be classified in the metals subcategory.
	Cadmium: 0.2 mg/L
	Chromium: 8.9 mg/L
	Copper: 4.9 mg/L
	Nickel: 37.5 mg/L
(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper,
	or nickel above any of the values listed above, the waste should be classified in the organics subcategory.
	Metals Subcategory
	Oils Subcategory
	Organics Subcategory
SECTION 10	Additional Instructions
Copper, Nick	determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, el, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This co acceptance. The generator will be responsible for the cost of the analysis.
SECTION 11	: Generator's Certification
The informa	tion contained herein is based on 🖳 generator knowledge and/or 🔲 analytical data.
I hereby cer	tify that the above and attached description is complete and accurate to the best of
-	ge and ability to determine that no deliberate or willful omissions of compostion
-	
	xist and that all known or suspected hazards have been disclosed. I certify that the
materials te	sted are representative of all materials described by this document.
Authorized S	Signature: Date:
<b>Printed Nam</b>	ne/Title:
CES USF ONI	LY (DO NOT WRITE IN THIS SPACE)
C	Officers
Compliance	*** * * * * * * * * * * * * * * * * *
Date:	Approved
Approval Nu	mber:



## PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):
\$.20 / gallon
2. Contamination Limit (maximum limit before surchages apply):
·
· · · · · · · · · · · · · · · · · · ·
3. Surcharge Pricing:
4. Special Testing Requirements:
5. Treatment and Handling Protocol:
WWTP after filtering solids
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



## PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Re	covered/Recycled	(if applicable):		 
8. Management for Pr	oduct Recovered/R	ecycled (if application	able)	

Geotie mag for

CES Environmental Stote Services, Inc.

4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

.2019allon

Robert

10 U To: Joe Camp, Jennifer Rust

Date: 7/01/09

Cc: Matt Bowman, Prabhaker, Clint Hopkins, Sam Brown

From: Miles Root

Lab Memo: 09-130

Subject: Oceaneering NW Waste Water Evaluation 0609-44

A sample of waste water from Oceaneering NW has been evaluated for potential processing at CES. This sample is evaluation 07609-44. This is a one-time potential receipt of approximately 3 totes of water generated from the floor cleaning of a new office building. Overall, this water treats without issue and this stream is recommended for acquisition and processing at CES.

This water is dark gray in appearance with a faint odor of detergent or soap. It contains 8% solids by centrifuge, which looks like fine concrete dust. Since this is coming from the cleaning of some type of floor, it probably is just that.

This water has a pH of 11. It treats easily and readily forms a nice large floc which readily phase separates out. The treated water has no phenols, TOC of 2216 and acceptable metals. The solids present all end up in the floc and the treated water looks nice and clear. There will be no issues with this water treatment and it acquisition and processing at CES are recommended.

The table below summarizes the analytical testing.

Oceaneering NW					
Evaluation 0609-44					
Solids, vol%	8				
Odor	slight detergent				
рН	11				
Phenols, ppm	0				
TOC, mg/L	2,216				
Oil, vol%	0				
Treatability	okay				
Metals, ppm					
Ni	0.005				
Zn	0.013				
Cu	0.172				
Cd	0.001				
Cr	0.013				

need bother

# CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021 Phone: (713) 676-1460 Fax: (713) 676-1676

# **Invoice**

Date	Invoice #
7/9/2009	57552

Bill To:

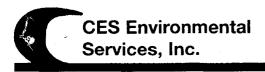
Oceaneering International

Attn: Accounts Payable Dept

5004 Railroad Ave. Morgan City, LA 70380

$\mathcal{L}_{\mathbf{z}}$		P.O. No.	Terms	Pro	oject	
Mai			Net 30	Port Northwest		
Quantity	Description		Manifest #	Rate	Amount	
2.75	6/18/09 Transportation services by CES to delive for wastewater @ \$70.00 per hour	er totes		70.00	192.50	
	9.5% Fuel Surcharge			18.29	18.29	
28	/ Sale of Totes @ 475.00 each		BOL 87844	75.00	450.00	
	1% Compliance Fee			6.61	6.6	
·						
į						
/e apprecia	ate your business!		Subtotal		\$667.4	
	nt Policy: Any unpaid balances begining on tue will accrue a per annum interest rate of 7.5		Sales Tax (8.	25%)	\$0.0	
	ormalized contract.	.,	Total	<u>, , , , , , , , , , , , , , , , , , , </u>	\$667.4	

Need Zip Code Mail to Nouston Oddius



4904 Griggs Road Houston, TX 77021 Phone: (713) 676-1460 Fax: (713) 676-1676 COPY

Invoice #

Date	Invoice #
7/9/2009	57552

Bill To:

Oceaneering International

Attn: Accounts Payable Dept

5004 Railroad Ave. Morgan City, LA 70380

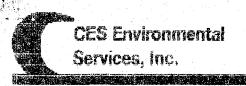
		P.O. No.	Terms	Pro	oject
			Net 30	Port Northwest	
Quantity	Description		Manifest #	Rate	Amount
2.75	6/18/09 Transportation services by CES to delive for wastewater @ \$70.00 per hour	or totes		70.00	192.50
	9.5% Fuel Surcharge			18.29	18.29
6	Sale of Totes @ 475.00 each		BOL 87844	75.00	450.00
	1% Compliance Fee			6.61	6.63
Ve appreci	ate your business!		Subtotal	<u> </u>	\$667.40
ccount is d	nt Policy: Any unpaid balances begining on the will accrue a per annum interest rate of 7.5°		Sales Tax (8	.25%)	\$0.00
tated in a f	ormalized contract.		Total		\$667.40

# CES Environmental Services, Inc.

Bill Of Lading #:

87844

Folder ID :	locas	neering inte Jector Wast	matenal (	Cossneering - NW)	naan, vinaansa asaa ah Adrauda in 198 min - "Oleh perantsis miter	والمراجعة المراجعة ا	Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry and Carry	
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4904 Gri					11b)-			
Houston	. TX 77	021			11c)-			
(713) 67	6-1460				110)			
said carrier (the cerry to its unue goods; it is not eny time interes between shipps for payment. Cl	e word carder sual place of d of itself a corf sted in sil or a rand carder o ranges to be b	being undersfor elivery at said o ract of carriage. Ty of said prope I lidermediany. ilied to Shipper	od throughoud lestination, it it is mutually ity, that ever or the "Ellico	cept as noted (content and o titis as meaning any perso fon its route, otherwise to d y agreed, as to each carrier y service to be performed in the party are set forth in the text of Shipper. The extra co	n or corporation authorized to a corporation and the carrier of all or as to any said of the carrier shall be subjected to a corporation and the carrier shall be subjected to a corporation and the carrier shall be subjected to a corporation and the carrier shall be subjected to a corporation and the carrier shall be subjected to a corporation and the carrier shall be subjected to a corporation and the carrier shall be subjected to a corporation and the carrier shall be subjected to a corporation and the carrier shall be subjected to a corporation and the carrier shall be subjected to a corporation and the carrier shall be subjected to a corporation and the carrier shall be subjected to a corporation and the carrier shall be subjected to a corporation and the carrier shall be subjected to a corporation and the carrier shall be subjected to a corporation and the carrier shall be subjected to a corporation and the carrier shall be subjected to a carrier shall be subjected to a carrier shall be subjected to a carrier shall be subjected to a carrier shall be subjected to a carrier shall be subjected to a carrier shall be subjected to a carrier shall be subjected to a carrier shall be subjected to a carrier shall be subjected to a carrier shall be subjected to a carrier shall be subjected to a carrier shall be subjected to a carrier shall be subjected to a carrier shall be subjected to a carrier shall be subjected to a carrier shall be subjected to a carrier shall be subjected to a carrier shall be subjected to a carrier shall be subjected to a carrier shall be subjected to a carrier shall be subjected to a carrier shall be subjected to a carrier shall be subjected to a carrier shall be subjected to a carrier shall be subjected to a carrier shall be subjected to a carrier shall be subjected to a carrier shall be subjected to a carrier shall be subjected to a carrier shall be subjected to a carrier shall be subjected to a carrier shall be subjected to a carrier shall be subjected to a carrier shall be subjected to a c	red to be in present on the route to said of wer all or any portion of to all the terms and all the per. No charge	don of the property unde destination. This Bill of in of said route to destin id conditions contained as other than those cont	is the contract) agrees to Lading is a receipt for adon, and as to each party in the applicable contract arned therein may be billed
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4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

### Transportation Work Ticket

Date: 6/18/2009	Manifest #:
CES Environmental Services, Inc.	
lient:	Ticket: 87844
Phone : 7136761460	Oceaneering Intéranational, Inc.
CES Environmental Services, In Fansporter:	Consignee : (NVV)
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Arrive At Customer : Not M M	Begin Unloading :
Begin Loading: ///0 pm	Finish Unloading:
Finish Loading: 11 30 A M	Leave Destination :
Leave Customer: 1/30 Am	Arrive At CES Yard:
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Tare Weight:	Begining Odometer: 129393.0
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4904 Griggs Road Houston, TX 77021

Phone: (713) 676-1460 Fax: (713) 676-1676

# Invoice

Date	Invoice #
7/9/2009	57552

Oceaneering International Bill To:

Attn: Accounts Payable Dept

5004 Railroad Ave. Morgan City, LA 70380

		P.O. No.	Terms	Pro	oject
			Net 30	Port Northwest	
Quantity	Description		Manifest #	Rate	Amount
2.75	6/18/09 Transportation services by CES to delive for wastewater @ \$70.00 per hour	er totes		70.00	192.50
	9.5% Fuel Surcharge			18.29	18.29
6	Sale of Totes @ 475.00 each		BOL 87844	75.00	450.00
	1% Compliance Fee			6.61	6.61
Ve appreci	ate your business!		Subtotal		\$667.40
Late Payment Policy: Any unpaid balances begining on the 30th day after the account is due will accrue a per annum interest rate of 7.5%, unless otherwise		Sales Tax (8.25%) \$(		\$0.00	
tated in a f	ited in a formalized contract.		Total		\$667.40

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# CES Environmental Services, Inc.

## **JOB INFORMATION PROFILE**

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4904 Griggs Road Houston, TX 77021 Phone: 713-676-1460 Fax: 713-676-1676

June 15, 2009

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16255 Port Northwest Suite 200

Houston, TX

Dear Mr. North,

Thank you for your interest in CES Environmental Services, Inc. and our industrial transportation and disposal services. Please find below our proposed scope of service and associated pricing for your consideration.

## **Scope of Service**

- CES will provide transportation by rail & product management of the material.
- CES will provide for the profile, manifests or bills of lading, labels, and appropriate shipping documents.

# **Estimated Costs for Completion of Work**

Service	Pricing
Management of Product Wasta	\$0.10 to \$0.20 / gallon depending on sample
Transportation	\$70 / hour (4 hour minimum)
Totes for w/w	\$75 / TP (one time fee)

#### **Conditions/Assumptions**

- Fuel Surcharge will be charged at 9.6% for the month of June.
- 1% Compliance fee will be charged to all services.

It is our sincere hope that you find our proposed scope of service and associated pricing appealing and will consider utilizing the services offered by CES Environmental Service, Inc. If you have any questions or comments or would like to begin service, please feel free to contact me at 713-800-7907.

Sincerely,

Jenny Rust

# Jenny Rust

Jenny Rust On behalf of Joe Camp

## **Jennifer Rust**

From:

Knut Scharning [knutsolo@sbcglobal.net]

Sent:

Monday, June 29, 2009 9:39 AM

To:

Jennifer Rust; Ramiz Tafilaj; Matt Bowman; Greg Bowman

Cc:

Durim Tafilaj

Subject:

RE: ETA UPDATE - Voy # 1 - CES - Stolt Sneland/ Qatar - Houston / Sodium Sulfide Solution

15% or less

Jennifer

**Good Morning** 

The vessel from Stolt will be docking at Stolt Haven – as per last time All the coming vessel as a general rule will be going there as per our contract.

The contract is calling for up to 2500 mt per voy

The Bill of lading will not be issued until cargo has been loaded – next month July 24 or there about Normal discharge time will be about 5-6 weeks later - ETA Houston is end of August for this one

When the contract has been put in place and all practical issues have been taken care of I will get u a full rundown on upcoming voyages

Let me know if there are any further questions

Knut A. Scharning

**Gulf Stream Tanker Chartering** 

**From:** Jennifer Rust [mailto:jrust@cesenvironmental.com]

Sent: Monday, June 29, 2009 8:10 AM

To: Knut Scharning; Ramiz Tafilaj; Matt Bowman; Greg Bowman

Cc: Durim Tafilaj

Subject: RE: ETA UPDATE - Voy # 1 - CES - Stolt Sneland/ Qatar - Houston / Sodium Sulfide Solution 15% or less

Do you know what terminals they intend to dock at? Or have a copy of the BOL for the quantity?

Thank You!

# Tennifer Rust

Direct: 713-800-7907 Cell: 713-367-8581

From: Knut Scharning [mailto:knutsolo@sbcglobal.net]

Sent: Friday, June 26, 2009 11:08 AM

To: Ramiz Tafilaj; Matt Bowman; Greg Bowman; Jennifer Rust

Subject: FW: ETA UPDATE - Voy # 1 - CES - Stolt Sneland/ Qatar - Houston / Sodium Sulfide Solution 15% or less

Following sent to Ras Gas on vessel ETA

Knut A. Scharning
Gulf Stream Tanker Chartering

**From:** Knut Scharning [mailto:knutsolo@sbcglobal.net]

**Sent:** Friday, June 26, 2009 11:05 AM **To:** 'Wibowo, Satrio X'; 'Garia, Balbir S'

**Cc:** 'Manickam, Luke M'; 'Yousuf, Muna B'; 'Ramiz Tafilaj'; 'Al-kubaisi, Mohammed A R'; 'Al-Agey, Nasser X' **Subject:** ETA UPDATE - Voy # 1 - CES - Stolt Sneland/ Qatar - Houston / Sodium Sulfide Solution 15% or less

To Ras Gas

Dear Satrio & Capt. Balbir

Hope all is well and looking forward to work with you all

# ETA Update Voyage # 1 - CES - Stolt Sneland/ Qatar - Houston / Sodium Sulfide Solution 15% or less

As per today vessel Estimated Time of Arrival for Ras Laffan Port, Qatar looks like - July 24, 2009.

Also it would be very positive if Ras Gas could start sending 90 days estimate for upcoming voyages.

This will also help us plan best possible arrival dates for future loading program in Ras Laffan

#### **BRGDS**

Gulf Stream Tanker Chartering, Llc.

Knut A. Scharning

Phone 713 869 4657 Cell 713 291 0044 Fax 713 862 3199

Email: knutsolo@sbcglobal.net

IM Yahoo: shipknut

Late July or August Stolt Sneland

# Barge to Ship Transfer at the Port of Houston Checklist

1	Receive original Bill Of Lading	
2	Job Folder created	
3	Customs has received Documents	
4	Barge available & Draft verified	
5	Contracts set up with Dock	
6	Ship Owners/Operators/Brokers informed of Transfer Location	
7	Barge Fleeting to Port of Houston arranged	
8	Tugboat secured	
9	Tanker Man Service secured	<del></del>
10	Surveying Service secured	
11	Vendor List submitted to Dock	
12	Contract specifications approved by Vendors	
13	Barge loaded with needed Material	<del></del>
14	Original Bill Of Lading delivered to Ship	
15	Give 2-4 hour notice to Tanker Man, Surveyors, & Tugboat	
16	Unload needed Material	<del></del>
17	Arrange transportation of Barge to Final Destination	

# CES Environmental Services, Inc. Profit & Loss Sheet

CONFIDENTIAL

**CONFIDENTIAL** 

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Address: 4359 West Tank Farm	Folder 11D# Calcasiev Refining (Lallaser)
Lake Charles, LA 70005	Folder 110# Calcasiev Refining (Calcasie)  Spent-caustil Lakiche
	Job Contact Barchard
Phone: 337-480-6414	Phone 337-480-6414
Fax: 337-287-4296	Fax - 337-287-4296
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lab packs	4 drums				STATE OF THE PROPERTY OF THE PARTY.
Benzyl Alcohol & Caustic Wash	8 drums				RQST Sample & MSDS 7/28
Ammonium Chloride	8 bags	CES		3302	Expires 4-29-11
oily pigs & rags	1 drum	CES		3239	Expires 3-23-11
Heptane	1 drum	CES	2003	2556	Expires 12-19-09
Acetic Anhydride. 99%:	1 drum	PCI	DDD1,D082		JSWCtsign 1 -
N-methyl Morpholine	2 drums	USET		09-006-5229	Expires 12-1-10
acetic acid waste	1 drum	PRS		EL95261	Expires 7-31-08
Diisopropylamine	2 drums	PCI	PO 01,0002		1 Swc+ SIGN 7 -
Ammonium Hydroxide	2 units (bags?)	TECO	D002		Need SWC & Signature, sent 7/28 9
2-methyltetrahydrofuran	3 drums				Need MSDS from Zach, RQST 7/28 9
dry sodium hydrosulfite	7 bags/drums	PCI	<b>₽01</b> , D003		Need Profile done / SWC+Sign 7/ -
2-Biphenylamine Hydrochloride	2 drums				Need MSDS from Zach, RQST 7/28 2
Cyclohexanone	1 drum	PCI	D001		Need Profile done Vらい(そろにい -
Styrene	3 drums	PCI	D001		Waiting on profile approval 7/23
				2661	Need permission from Zach to add, RQST
Ethylacetate towels	1 drum	CES	Class 1 Solids		7/28 4
4-dioxane	3 drums (metal 55 gal)	PCI	D001, 1016	r r	Waiting on profile approval 7/23
dicychexylamine	1 drum	PCI	D002 ( <b>10th</b>	THIN STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE	Waiting on profile approval 7/23
bromobenzene	1 drum	PCI	D001, D018		Waiting on profile approval 7/23
hydrogen peroxide 30%	1 drum	CES	Product	3438	Expires 7-27-11
hydrogen peroxide 50%	1 drum	CES	Product	3438	Expires 7-27-11
z-l-cyclohexylglycine	21 drums	CES	Class 1 Solids	3436	Expires 7-27-11
l-cyclohexylglycine	36 drums	CES	Class 1 Solids	3436	Expires 7-27-11
piredone HCL	1 drum	CES	Class 1 Solids	3436	Expires 7-27-11
			Universal /		
Electronic Waste	1 Pallet	CES	D009		Need signature, resent 7/28
sodium tungsate dihydrate	7 drums	CES	Class 2 Solids	3437	Expires 7-27-11





Anmony @ L Dynamic

MON

# Jennifer Rust

From:

Jennifer Rust

Sent:

Friday, July 24, 2009 4:07 PM

To:

'Ron Smith (ron.smith@zambongroup.com)'

Cc: Subject:

Jov Baker **Profiles** 

Attachments:

image001.jpg; 07-24-2009(21).pdf; Jennifer Rust.vcf

# Good Afternoon

I will be assisting Joy with the Zach Systems profiles – I have attached my contact information in case you have any questions or concerns.

I cannot locate a msds for the 2-biphenylamine Hydrochloride drums - can you provide one? I also have not received the electronic waste profile back signed (attached). Please let me know if there is anything you need assistance with!

Thank you & have a great weekend,

# Jenny Rust

**CES Environmental** Services, Inc.

4904 Griggs Road Houston, TX 7702I

Office: (713) 676-1460

Direct: (713) 800-7907 Cell: (713) 367-8581

Fax: (713) 748-8664

<u>irust@cesenvironmental.com</u>

Visit us at <a href="http://cesenvironmental.com">http://cesenvironmental.com</a>

Revise - need sample +

MSDS' for Berzyl

Alcohol + Caustic work.

Send "Ammonim Hydroxide DWC + Sign

Empacitate towels to luould liketo add E class I Solid profile

fit under CES P#DLeel

Does to May 1 add them? IF so Puaso Sign the polatical proprie

	Ecology Texas (Robstown) Profile #:
Fax (775) 553-2125  I US Ecology Idaho (Grand View)  Fax (208) 834-2919	Fax 1581) 387-0794  Joy has 4 return to 7/24
A. CUSTOMER INFORMATION *Waste as shipped will be: Indus	
	Check if Billing is Same
	Billing Company: CES Environmental Services, Inc.  Billing Address: 4904 Griggs
Latone, IX 77371	Billing Address: 4904 Griggs  City/State/Zip: Houston, TX 77021
	Billing Contact: Juanita Thomas
	Phone No.: 713-676-1460 Fax No.: 713-676-1676
	Email: jthomas@cesenvironmental.com
NAICS# ☐ CESQG ☐ SQG ☑ LQG EPA ID: TX	R000079062 State ID# 88429
B. SHIPPING INFORMATION	
1. US DOT Shipping Name Ammonia Solutions (with 10-359)	% Ammonia) 2. Hazard Class 8
3. UN/NA # UN2672 4. Packaging Group III	5.RQ 100
6. Container Type: Bulk Totes Pallet Size 55 gallon 7	7. Frequency: Year QTR Month
Boxes Bags V Drums Other Quantity 3	1 Time Other
C. GENERAL MATERIAL & REGULATORY INFORMATION	
1. Common name for this waste  Ammonium Hydroxide	
2. Process generating the material Discarded product.	
(include additional sheets as necessary)	
3. Describe Physical Appearance of Waste Clear, Colourless	
4. Describe odor of waste: None Slight Strong Describe: Ammonia	(a.a.a.if.)
5. Knowledge is from: Lab Analysis MSDS Process/Generator knowledge Othe	
<u> </u>	Is the waste restricted under EPA Land Disposal Restrictions
	(40 CFR 268), if yes please complete LDR form
	*LDR treatment sub-catergory Wastewater Mon-wastewater Exempt Waste: If yes, list ref. 40 CFR
	Contains UHCs/Constituents of Concern: List in section D  Has the waste been treated after the initial point of generation?
Yes V No S	
	Alternative standards for Soil ?
	Form Code W 219 Mgt. Method H 132
D. MATERIAL COMPOSITION (Physical/Chemical) E. Does the waste exh	ibit or contain the following:
(Range Total > or = 100%) Values are  TCLP TOTALS Yes No Oxidizer	Yes No React. Sulfides ppm
(include additional sheets as necessary) typical value unit range Yes V No Explosive	Yes V No React. Cyanides ppm
Ammonium Hydroxide 50 % 21-72 Yes V No Organic Per	
Alkyl phenol ethoxylated potassium salt 50 % 28-79 Yes No Shock Sens	itive Yes No Thermally Unstable Yes No TSCA Regulated PCB Waste
Yes ✓ No Tires   Yes ✓ No Pyrophoric	
Yes V No Radioactive	e** Yes V No Compressed Gasses
Yes ✓ No Exempt RA	
	d Organic Compounds? (per 40 CFR 268, Appendix III)
F. PHYSICAL CHARA	
	F (if <140°F) 2. Typical pH: <u>13.8</u> pH Range: $\leq$ 2 y of incidental liquids from transportation? $\leq$ 2, <12.50
	the pass the EPA specified paint filter test? $  \checkmark   \ge 12.5$
G. GENERATOR'S CERTIFICATION: Yes Yes No I certify this material may lead to the Certification Statement: I certify under penalty of law that I am familiar with this waste stream through analysis.	
that all information provided is true, accurate, representitive and complete, and that all known or suspected ha	
Furthermore, I certify that this form was completed in accordance with the instructions provided.	rint Name:
Signature: Title:	Date:
First review Second review	Final review:
Date approved:	Date Denied:

MSDS Number: **A5916** * * * * * Effective Date: **06/05/08** * * * * * Supercedes: **05/04/07** 



# Material Safety Data Sheet

From: Mallinckrodt Baker, Inc. 222 Red School Lane Phillipsburg, NJ 08865





24 Hour Emergency Telephone: 908-859-2151 CHEMTREC: 1-600-424-9300

National Response in Canada CANUTEC: 613-996-6666

Outside U.S. and Canada Chemtrec: 703-527-3887

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, line, exposure or accident involving chemicals.

All non-emergency questions should be directed to Customer Service (1-800-582-2537) for assistance.

# **AMMONIUM HYDROXIDE (10 - 35% NH3)**

# 1. Product Identification

Synonyms: Ammonium hydroxide solutions; ammonia aqueous; ammonia solutions

**CAS No.:** 1336-21-6 **Molecular Weight:** 35.05

Chemical Formula: NH4OH in H2O

**Product Codes:** 

J.T. Baker: 4807, 5204, 5224, 5350, 5358, 5604, 5817, 5820, 5851, 5852, 5891, 5893, 5993,

7847, 9718, 9719, 9721, 9730, 9731, 9733, 9741, 9742, 9743

Mallinckrodt: 0124, 0127, 1177, 3256, 3258, 5318, 6665, H010, H893, H894, V592, V649,

V893, XL002, XM-187, XM-189

# 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Ammonium Hydroxide Water Contains between 10 and 35% ammonia.	1336-21-6 7732-18-5	21 - 72% 28 - 79%	Yes No

http://www.jtbaker.com/msds/englishhtml/A5916.htm

# 3. Hazards Identification

# **Emergency Overview**

POISON! DANGER! CORROSIVE. MAY BE FATAL IF SWALLOWED OR INHALED. MIST AND VAPOR CAUSE BURNS TO EVERY AREA OF CONTACT.

# **SAF-T-DATA**(tm) Ratings (Provided here for your convenience)

Health Rating: 3 - Severe (Poison) Flammability Rating: 0 - None Reactivity Rating: 1 - Slight

Contact Rating: 4 - Extreme (Corrosive)

Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD;

PROPER GLOVES

Storage Color Code: White Stripe (Store Separately)

#### **Potential Health Effects**

#### Inhalation:

Vapors and mists cause irritation to the respiratory tract. Higher concentrations can cause burns, pulmonary edema and death. Brief exposure to 5000 ppm can be fatal.

### Ingestion:

Toxic! May cause corrosion to the esophagus and stomach with perforation and peritonitis. Symptoms may include pain in the mouth, chest, and abdomen, with coughing, vomiting and collapse. Ingestion of as little as 3-4 mL may be fatal.

## **Skin Contact:**

Causes irritation and burns to the skin.

## **Eve Contact:**

Vapors cause irritation. Splashes cause severe pain, eye damage, and permanent blindness.

## **Chronic Exposure:**

Repeated exposure may cause damage to the tissues of the mucous membranes, upper respiratory tract, eyes and skin.

# **Aggravation of Pre-existing Conditions:**

Persons with pre-existing eye disorders or impaired respiratory function may be more susceptible to the effects of this material.

# 4. First Aid Measures

### Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately.

## **Ingestion:**

If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

http://www.jtbaker.com/msds/englishhtml/A5916.htm

#### **Skin Contact:**

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician, immediately. Wash clothing before reuse.

## **Eye Contact:**

Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Call a physician immediately. Immediate action is critical to minimize possibility of blindness.

# 5. Fire Fighting Measures

#### Fire:

Autoignition temperature: 651C (1204F) Flammable limits in air % by volume:

lel: 16; uel: 25 **Explosion:** 

Flammable vapors may accumulate in confined spaces.

## Fire Extinguishing Media:

Use any means suitable for extinguishing surrounding fire. Use water spray to blanket fire, cool fire exposed containers, and to flush non-ignited spills or vapors away from fire.

# **Special Information:**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

# 6. Accidental Release Measures

Ventilate area of leak or spill. Keep unnecessary and unprotected people away from area of spill. Wear appropriate personal protective equipment as specified in Section 8. Contain and recover liquid when possible. Do not flush caustic residues to the sewer. Residues from spills can be diluted with water, neutralized with dilute acid such as acetic, hydrochloric or sulfuric. Absorb neutralized caustic residue on clay, vermiculite or other inert substance and package in a suitable container for disposal.

US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

J. T. Baker NEUTRACIT®-2 or BuCAIM® caustic neutralizers are recommended for spills of this product.

# 7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Separate from incompatibilities. Store below 25C. Protect from direct sunlight. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

# 8. Exposure Controls/Personal Protection

# **Airborne Exposure Limits:**

-OSHA Permissible Exposure Limit (PEL):

50 ppm (NH3)

-ACGIH Threshold Limit Value (TLV):

25 ppm (NH3) (TWA) 35 ppm (STEL)

## **Ventilation System:**

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

# Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded and engineering controls are not feasible, a full facepiece respirator with an ammonia/methylamine cartridge may be worn up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

#### **Skin Protection:**

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Neoprene and nitrile rubber are recommended materials. Polyvinyl alcohol is not recommended.

# **Eye Protection:**

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

# 9. Physical and Chemical Properties

Appearance:

Clear, colorless solution.

Odor:

Ammonia odor.

**Solubility:** 

Infinitely soluble.

**Specific Gravity:** 

0.9 (28% NH4OH)

pH:

http://www.jtbaker.com/msds/englishhtml/A5916.htm

13.8 (29% solution).

% Volatiles by volume @ 21C (70F):

No information found.

**Boiling Point:** 

ca. 36C (ca. 97F)

**Melting Point:** 

-72C (-98F)

Vapor Density (Air=1):

0.60 NH3

Vapor Pressure (mm Hg):

115 @ 20C for 10% solution; 580 @ 20C for 28% solution.

**Evaporation Rate (BuAc=1):** 

No information found.

# 10. Stability and Reactivity

## **Stability:**

Stable under ordinary conditions of use and storage.

# **Hazardous Decomposition Products:**

Burning may produce ammonia, nitrogen oxides.

# **Hazardous Polymerization:**

Will not occur.

# **Incompatibilities:**

Acids, acrolein, dimethyl sulfate, halogens, silver nitrate, propylene oxide, nitromethane, silver oxide, silver permanganate, oleum, beta-propiolactone. Most common metals.

### **Conditions to Avoid:**

Heat, sunlight, incompatibles, sources of ignition.

# 11. Toxicological Information

For ammonium hydroxide:

oral rat LD50: 350 mg/kg; eye, rabbit, standard Draize, 250 ug; severe, investigated as a mutagen.

For ammonia:

inhalation rat LC50: 2000 ppm/4-hr; investigated as a tumorigen, mutagen.

\Cancer Lists\	NTP	Carcinogen	
Ingredient	Known	Anticipated	IARC Category
Ammonium Hydroxide (1336-21-6)	No	No	None
Water (7732-18-5)	No	No	None

# 12. Ecological Information

## **Environmental Fate:**

This material is not expected to significantly bioaccumulate.

**Environmental Toxicity:** 

24 Hr LC50 rainbow trout: 0.008 mg/L; 96 Hr LC50 fathead minnow: 8.2 mg/L; 48 Hr LC50 bluegill: 0.024 mg/L;

48 Hr EC50 water flea: 0.66 mg/L

# 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

# 14. Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name: AMMONIA SOLUTIONS (WITH 10-35% AMMONIA)

Hazard Class: 8 UN/NA: UN2672 Packing Group: III

Information reported for product/size: 385LB

International (Water, I.M.O.)

Proper Shipping Name: AMMONIA SOLUTIONS (WITH 10-35% AMMONIA)

Hazard Class: 8 UN/NA: UN2672 Packing Group: III

Information reported for product/size: 385LB

# 15. Regulatory Information

WHMIS Classification: D1B, E

------\Chemical Inventory Status - Part 1\------

http://www.jtbaker.com/msds/englishhtml/A5916.htm

Ingredient					Australia
Ammonium Hydroxide (1336-21-6) Water (7732-18-5)		Yes	Yes	Yes	
\Chemical Inventory Status - Par	t 2\			 anada	
Ingredient			a DSL	NDSL	Phil.
Ammonium Hydroxide (1336-21-6) Water (7732-18-5)	<del></del>	Yes	Yes	No No	Yes
\Federal, State & International					A 313
Ingredient	RQ				mical Cat
Ammonium Hydroxide (1336-21-6) Water (7732-18-5)	No No	No	No		No
\Federal, State & International : Ingredient	<del>-</del>	LA	-RCRA-261.33	2\ T: 3 8	SCA- (d)
Ammonium Hydroxide (1336-21-6) Water (7732-18-5)	1000		No	No No	0

Australian Hazchem Code: 2P

Poison Schedule: S6

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

# 16. Other Information

NFPA Ratings: Health: 3 Flammability: 1 Reactivity: 0

Label Hazard Warning:

POISON! DANGER! CORROSIVE. MAY BE FATAL IF SWALLOWED OR INHALED.

MIST AND VAPOR CAUSE BURNS TO EVERY AREA OF CONTACT.

**Label Precautions:** 

Do not get in eyes, on skin, or on clothing.

Do not breathe vapor or mist.

Keep container closed.

Use only with adequate ventilation.

Wash thoroughly after handling.

Label First Aid:

If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give

anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. IMMEDIATE ACTION IS ESSENTIAL FOR EYE EXPOSURES. In all cases call a physician immediately.

**Product Use:** 

Laboratory Reagent.

**Revision Information:** 

MSDS Section(s) changed since last revision of document include: 15.

Disclaimer:

Mallinckrodt Baker, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. MALLINCKRODT BAKER, INC. MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, MALLINCKRODT BAKER, INC. WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.

**Prepared by:** Environmental Health & Safety Phone Number: (314) 654-1600 (U.S.A.)

# **PCI**

# GENERATOR'S WASTE PROFILE SHEET



**COMPLETE - PRINT - SIGN - FAX (219) 397-6411** 

A. GENERATOR INFORMATION ————————————————————————————————————	<del></del>
Generator Name Zach System Corp.	
Facility Address 914 South 16th Street City La Porte State TX Zip 7757	1
Customer Name Ronald Smith	
Customer Phone (281) 842-0201	
Generator USEPA/Federal ID#	
Is the Generator a "Conditionally Exempt Small Quantity Generator"? Yes ( No	
Generator's S.I.C. Code (4 Digit) 2992	
BILLING INFORMATION (Check HERE if billing information is the same as above information)	
Billing Name CES Environmental Services, Inc.	
Billing Address 4904 Griggs City Houston State TX Zip 7702	21
Billing Contact Name Juanita Thomas	
Billing Phone (713) 676-1460 Billing FAX (713) 748-8664	
PCI Sales Rep.	
Original Process Generating Waste Discarded product  Is a representative sample provided? Yes No Is a MSDS attached? Yes No Is a MSDS attached? Yes No Is a MSDS attached?	No
C. GENERAL CHARACTERISTICS	
Color Gray to white Odor Strong SUFIde distible a	
Physical State @ 70 F Select %Liquid Select %Sludge 100% %Solid Select %Po	owder
Phases Single Layer Multi Layer How Many	
Btu/lb <3,000 3,000-5,000 5,000-10,000 >10,000	
PH <2.0 2.0 to 4.0 4.0 to 10.0 10.0 to 12.5 >12.5	
	ne 💽
Specific Gravity 18.26 % Total Halogens Select	
-D. CHEMICAL COMPOSITION (Total of Maximum concentration must > or = to 100%)	
,	х%
Sodium Hydrosulfite 90% 100% Select Sele	}
Select Select Select Select	ct
Select Select Select Select	ct

E. OTHER WASTE STREAM INFORMATION					
Is this waste a "USED OIL" per 40CFR PART 279?	Yes O No O				
If "Yes", does the total halogen content exceed 1,000 ppm?	Yes No No				
If "Yes", can you identify the "Chlorinated Constituent" present in the oil?  Yes O No O					
If "Yes", can you rebut the presumption that this material is a "Hazardous Waste"?	Yes No No				
Does the Waste have any of the following characteristics? (Please select all that a	pply)				
Oxidizer Organic Peroxide Water Reactive Air Reactive	O Pyrophoric O Dioxin				
Radioactive O Infectious O Pathogen O Carcinogen	© Etiological				
O Explosive O Shock Sensitive O Undergo Hazardous Polymerization Does the Waste contain any of the following?	O Cylinder				
	LESS THAN or ACTUAL				
guaranamanana	<50ppm ( >50 ppm				
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Tomanian en en en en en en en en en en en en en	\$10000000000000000000000000000000000000				
Does the waste represented by this profile contain benzene?  Yes	No 💽				
If "Yes", please list concentration inppm.	Submand FP) Var A 41 A				
Is the Waste subject to the benzene waste operations NESHAP? (40CFR Part 61, S					
Answer "Yes" if your waste contains benzene and if the SIC code from your facility	is one of the following:				
2812 2813 2816 2819 2821 2822 2823 2824 2833 2834 2835 2836	2841 2842 2843 2844 2851				
2861 2865 2869 2873 2874 2876 2879 2891 2892 2893 2896 2899	2911 3312 4953 4959 9511				
Is the Waste subject to RCRA Subpart CC controls? (40 CFR 265 SUBPART CC)	Yes 🔘 No 💽				
If "No", does the Waste meet the organic LDR exemption for UHC'S? (40 CFR 268.4					
If "No", does the Waste contain <500ppmw volatile organic(VO)? (40 CFR 265 SU					
Does the Waste contain any Class I or Class II ozone-depleting substances?	Yes No O				
If PCB'S are present, is the waste regulated by TSCA per 40 CFR 761?	Yes No O				
in tob 3 dre present, is the waste regulated by 1567/ per 40 ork 701.					
F. SHIPPING INFORMATION:					
Method of Shipment					
Bulk Liquid(> 500 Gallons)  Bulk Solids(roll-off box, vacuum box, etc)	Lab Pack				
	Lab rack				
Cubic Yard Boxes Totes (Please specify size)					
Drums (Select size) 55 Other (Please specify) Cubic Yard Bags	mmmmmm, and a surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface of the surface				
Shipping Frequency  Number of Units  Wenth  Ougston	Othor				
Number of Units Month Quarter Year 12	Other				
C D C D A CHADACTEDIZATION:					
G. R.C.R.A. CHARACTERIZATION:	f "No" Diagonaliin ta ee' ee				
	f "No", Please skip to section H.				
Is this a "Universal Waste" per 40CFR part 273?  Yes No O					
Is this a "Characteristic Waste"?  Yes  No  No  No  No  No  No  No  No  No  No	. n				
	Reactive				
Characteristic for Toxic Metals:					
O D004 O D005 O D006 O D007 O D008 O D009	9 <b>O</b> D010 <b>O</b> D011				
	,				

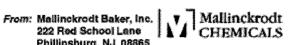
Is this an "F" or "K" Listed waste or mixed with one? Yes No   No	
If "Yes", Please list all applicable code(s) from 40CFR261.31 and/or 261.32:	
Is this a commercial chemical product or spill cleanup that would carry a "U" or "P"	
waste code under 40CFR 261.33 (e) or (f) Yes No   No	
If "Yes", Please list all applicable waste code(s)	
Is this a state regulated waste?  Yes   No	
If "Yes", Please list all codes.	
rh. Dot shipping information:	
Is this a U.S. Dept. of Transportation (USDOT) Hazardous Material?  Yes   No	
Proper Shipping Name per 49CFR 172.101 Hazardous Materials Table: Sodium Dithionite	
"Reportable Quantity" (if any) 5000 lbs	
quantitationium.	111
Is this a "Poison Inhalation Hazard"?  Yes  No  O	
If "Yes", Please indicate Hazard Zone Zone A Zone B Zone C Zone D Othe	er
List two primary hazardous constituents: 1 Sodium Hydrosulfite 2	-
[ I. GENERATOR CERTIFICATION:	
knowledge and ability. No deliberate or willful omissions of composition or properties exist and that	
all known or suspected hazards have been disclosed. I also certify that the obtained sample is representative of the waste material described above and give PCI permission and consent to make amendments and correction.  Name Ronald Smith Title EHS Manager	ons.
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MSDS Number: \$3650 * * * * * * Effective Date: 11/10/06 * * * * * Supercedes: 02/12/04

MSDS

Material Safety Data Sheet

Phillipsburg, NJ 08865





24 Hour Emergency Telephone: 906-859-2151 CHEMTREC: 1-800-424-9300

National Response in Canada CANUTEC: 613-996-6666

Outside U.S. and Canada Chemtrec: 703-527-3887

NOTE: CHEMITIEC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, tire, exposure or accident involving chemicals.

All non-emergency questions should be directed to Customer Service (1-800-562-2537) for assistance

# SODIUM HYDROSULFITE

# 1. Product Identification

Synonyms: Sodium Dithionite; Dithionous acid, disodium salt; Sodium Sulfoxylate

CAS No.: 7775-14-6

Molecular Weight: 174.10 Chemical Formula: Na2S2O4

**Product Codes:** J.T. Baker: 3712 Mallinckrodt: 7672

# 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Sodium Hydrosulfite	7775-14-6	90 - 100%	Yes

# 3. Hazards Identification

**Emergency Overview** 

http://www.jtbaker.com/msds/englishhtml/s3650.htm

# WARNING! FLAMMABLE SOLID. MAY IGNITE WITH MOISTURE AND AIR. HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.

# **SAF-T-DATA**(tm) Ratings (Provided here for your convenience)

Health Rating: 2 - Moderate (Life)

Flammability Rating: 4 - Extreme (Flammable) Reactivity Rating: 3 - Severe (Air Reactive)

Contact Rating: 3 - Severe

Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD;

PROPER GLOVES

Storage Color Code: Red Stripe (Store Separately)

## **Potential Health Effects**

#### Inhalation:

Inhalation can cause severe irritation of mucous membranes and upper respiratory tract. Symptoms may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting. High concentrations may cause lung damage. Higher exposures can cause a build-up of fluid in the lungs (pulmonary edema), a medical emergency.

## **Ingestion:**

May cause abdominal pain, nausea, vomiting, colic and diarrhea, circulatory disturbances, central nervous system depression, irritability, restlessness, convulsions, cyanosis, respiratory and cardiovascular collapse, and death. Estimated lethal dose 30 grams.

## **Skin Contact:**

Can irritate the skin causing a rash or burning feeling on contact. High concentrations could cause burns.

### **Eye Contact:**

Causes irritation, redness, and pain. May cause burns and possible damage to vision.

# **Chronic Exposure:**

Exposure may induce allergic reaction.

# **Aggravation of Pre-existing Conditions:**

Persons allergic to "sulfiting" agents, used to preserve some foods, may be more susceptible to the effects of this substance.

# 4. First Aid Measures

#### Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

### **Ingestion:**

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

# **Skin Contact:**

Wipe off excess material from skin then immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

# **Eye Contact:**

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

# 5. Fire Fighting Measures

#### Fire:

Flammable Solid. Heats spontaneously in contact with moisture and air. May ignite in the presence of combustible materials.

## **Explosion:**

Not considered to be an explosion hazard. An explosion occurred after mixing sodium hydrosulfite, aluminum powder, potassium carbonate and benzaldehyde.

# Fire Extinguishing Media:

Carbon dioxide, dry chemical or sand.

## **Special Information:**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

# 6. Accidental Release Measures

Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container.

# 7. Handling and Storage

Keep in a tightly closed container. Protect from physical damage. Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product. Do Not attempt to clean empty containers since residue is difficult to remove. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, sparks, flame, static electricity or other sources of ignition: they may explode and cause injury or death.

# 8. Exposure Controls/Personal Protection

## **Airborne Exposure Limits:**

None established.

# **Ventilation System:**

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

## Personal Respirators (NIOSH Approved):

For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

### **Skin Protection:**

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

# **Eye Protection:**

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

# 9. Physical and Chemical Properties

## Appearance:

White to grayish-white granular powder.

#### Odor

Distinct sulfur dioxide odor.

## **Solubility:**

Soluble in water.

## **Density:**

2.19

### pH:

No information found.

% Volatiles by volume @ 21C (70F):

0

## **Boiling Point:**

Not applicable.

### **Melting Point:**

52C (126F) Decomposes.

Vapor Density (Air=1):

3.6

# Vapor Pressure (mm Hg):

No information found.

# **Evaporation Rate (BuAc=1):**

No information found.

# 10. Stability and Reactivity

## **Stability:**

Stable when stored in closed containers at room temperature. Heats spontaneously in contact with moisture and air. Loses all of its water of crystallization at 110C. Decomposes in hot water and acid.

## **Hazardous Decomposition Products:**

Burning may produce sulfur oxides.

# **Hazardous Polymerization:**

Will not occur.

# **Incompatibilities:**

Water, combustible materials, strong oxidizing agents, strong acids and sodium chlorite. An explosion occurred after mixing sodium hydrosulfite, aluminum powder, potassium carbonate and benzaldehyde.

## **Conditions to Avoid:**

Moisture, humidity, heat, flame, ignition sources and incompatibles.

# 11. Toxicological Information

No LD50/LC50 information found relating to normal routes of occupational exposure.

\Cancer List	:s\			
	NTP	Carcinogen		
Ingredient		Known	Anticipated	IARC Category
Sodium Hydrosulfite	(7775-14-6)	No	No	3

# 12. Ecological Information

## **Environmental Fate:**

No information found.

## **Environmental Toxicity:**

No information found.

# 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations

http://www.jtbaker.com/msds/englishhtml/s3650.htm

may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

# 14. Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name: SODIUM DITHIONITE

Hazard Class: 4.2 UN/NA: UN1384 Packing Group: II

Information reported for product/size: 2.5KG

International (Water, I.M.O.)

Proper Shipping Name: SODIUM DITHIONITE

Hazard Class: 4.2 UN/NA: UN1384 Packing Group: II

Information reported for product/size: 2.5KG

International (Air, I.C.A.O.)

Proper Shipping Name: SODIUM DITHIONITE

Hazard Class: 4.2 UN/NA: UN1384 Packing Group: II

Information reported for product/size: 2.5KG

# 15. Regulatory Information

\Chemical Inventory Status - Part Ingredient	•		EC		 Australia			
Sodium Hydrosulfite (7775-14-6)		Yes	Yes	Yes	Yes			
Chemical Inventory Status - Part 2\								
Ingredient		Korea		anada NDSL	Phil.			
Sodium Hydrosulfite (7775-14-6)		Yes	Yes	No	Yes			
\Federal, State & International Regulations - Part 1\SARA 313								
Ingredient	RQ	–			mical Catg.			
Sodium Hydrosulfite (7775-14-6)	No	No	No		No			

http://www.jtbaker.com/msds/englishhtml/s3650.htm

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No SARA 311/312: Acute: Yes Chronic: No Fire: Yes Pressure: No Reactivity: Yes (Pure / Solid)

Australian Hazchem Code: 1P Poison Schedule: None allocated.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

# 16. Other Information

NFPA Ratings: Health: 3 Flammability: 1 Reactivity: 2 Other: Water reactive

Label Hazard Warning:

WARNING! FLAMMABLE SOLID. MAY IGNITE WITH MOISTURE AND AIR. HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.

#### **Label Precautions:**

Keep away from heat, sparks and flame.

Avoid contact with eyes, skin and clothing.

Avoid breathing dust.

Keep container closed.

Use only with adequate ventilation.

Store in a tightly closed container.

Wash thoroughly after handling.

### **Label First Aid:**

If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of contact, wipe off excess material from skin then immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. In all cases, get medical attention.

# **Product Use:**

Laboratory Reagent.

### **Revision Information:**

MSDS Section(s) changed since last revision of document include: 3.

#### Disclaimer:

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http://www.jtbaker.com/msds/englishhtml/s3650.htm

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**Prepared by:** Environmental Health & Safety Phone Number: (314) 654-1600 (U.S.A.)

# **PCI**

# GENERATOR'S WASTE PROFILE SHEET



COMPLETE - PRINT - SIGN - FAX (219) 397-6411

A. GENERATOR INFORMATION ————————————————————————————————————			
Generator Name Zach System Corp.			
Facility Address 914 South 16th Street City La Po	rte	State TX	Zip 77571
Customer Name Ronald Smith			
Customer Phone (281) 842-0201 Customer FAX (281	) 867-1734	***************************************	
Generator USEPA/Federal ID#			
Is the Generator a "Conditionally Exempt Small Quantity Generator	? OYes ON	0	
Generator's S.I.C. Code (4 Digit) 2992			
BILLING INFORMATION (Check HERE if billing information is the	same as above info	ormation)	
Billing Name CES Environmental Services, Inc.			
Billing Address 4904 Griggs City House	ton	State TX	Zip 77021
Billing Contact Name Juanita Thomas		3	ii Seemanneemanneemanneemanneemanneemanneemanneemanneemanneemanneemanneemanneemanneemanneemanneemanneemanneema
Billing Phone (713) 676-1460 Billing FAX (713) 7	48-8664		
PCI Sales Rep.			
Original Process Generating Waste Discarded product Is a representative sample provided? Yes No Is there any analytical attached? Yes No	Is a MSDS att	tached? 🗸	Yes No
C. GENERAL CHARACTERISTICS			
Color Soloct Oily Odor Strong peppelm	intractore	•	
Physical State @ 70 F 100% %Liquid Select %	Sludge Select	%Solid Sel	lect %Powder
Select %Gas (Aerosol) Select %	Gas (Other) Select	%Other	
Phases Single Layer  Multi Layer  How Mar	у		
	•	,000 🔘	_
PH <2.0  2.0 to 4.0  4.0 to 10.0	• 10.0 to 12.5	5 <b>O</b> >12.	5 🔿
Liquid Flash Point <73 F 73 to 99 F 100 to 139 F	140 to 200	F <b>O</b> >200	FO None O
Specific Gravity 18.26 % Total Halogens Select			
D. CHEMICAL COMPOSITION (Total of Maximum concentration		•	
guarante de la constante de la	nstituents	Min	
Cyclohexanone 90% 100%		Sele	
Select Select		Sele	
Select Select	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	Sele	ct Select

E. OTHER WASIE STREAM INFORMATION	V O N- O						
Is this waste a "USED OIL" per 40CFR PART 279?	Yes No O						
If "Yes", does the total halogen content exceed 1,000 ppm?	Yes O No O						
If "Yes", can you identify the "Chlorinated Constituent" present in the oil?	Yes O No O						
If "Yes", can you rebut the presumption that this material is a "Hazardous Waste"?	Yes No No						
Does the Waste have any of the following characteristics? (Please select all that app							
Oxidizer Organic Peroxide OWater Reactive Air Reactive Radioactive OInfectious OPathogen Carcinogen	O Pyrophoric O Dioxin O Etiological O Aerosols						
O Explosive O Shock Sensitive OUndergo Hazardous Polymerization	O Cylinder						
Does the Waste contain any of the following?							
	ESS THAN or ACTUAL						
Browning Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of t	50ppm O ppm						
Cyanides   <50ppm ppm Phenolics <	50ppm O ppm						
Does the waste represented by this profile contain benzene?  Yes	No 💽						
If "Yes", please list concentration inppm.							
Is the Waste subject to the benzene waste operations NESHAP? (40CFR Part 61, Su	bpart FF) Yes No No						
Answer "Yes" if your waste contains benzene and if the SIC code from your facility is	s one of the following:						
2812 2813 2816 2819 2821 2822 2823 2824 2833 2834 2835 2836 28	341 2842 2843 2844 2851						
	911 3312 4953 4959 9511						
Is the Waste subject to RCRA Subpart CC controls? (40 CFR 265 SUBPART CC)	Yes No 💿						
If "No", does the Waste meet the organic LDR exemption for UHC'S? (40 CFR 268.48, 268.7)  Yes No No O							
If "No", does the Waste contain <500ppmw volatile organic(VO)? (40 CFR 265 SUBF							
Does the Waste contain any Class I or Class II ozone-depleting substances?	Yes No O						
If PCB'S are present, is the waste regulated by TSCA per 40 CFR 761?	Yes No O						
in 1000 are present, is the waste regulated by 1507 per 40 ork 701.	103						
F. SHIPPING INFORMATION:							
Method of Shipment							
Bulk Liquid(> 500 Gallons) Bulk Solids(roll-off box, vacuum box, etc)	Lab Pack						
Cubic Yard Boxes Totes (Please specify size)							
Drums (Select size) 55 Other (Please specify)							
Shipping Frequency	one en en en en en en en en en en en en e						
Number of Units Month Quarter Year 3	Other						
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G. R.C.R.A. CHARACTERIZATION:							
Is this a USEPA "Hazardous Waste" per 40CFR 261.3? Yes   No   If '	"No", Please skip to section H.						
Is this a "Universal Waste" per 40CFR part 273?  Yes No   No							
Is this a "Characteristic Waste"?  Yes  No  No							
If "Yes", is it:   ☐D002 Corrosive ☐D003 F	Reactive						
Characteristic for Toxic Metals:							
O D004 O D005 O D006 O D007 O D008 O D009	OD010 OD011						

G. R.C.R.A.		`	•	0	V 🔨	N- 🔿		
1	or "K" Listed \				Yes O	No 💽		***************************************
If "Yes", Please list all applicable code(s) from 40CFR261.31 and/or 261.32:  Is this a commercial chemical product or spill cleanup that would carry a "U" or "P"								
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# Material Safety Data Sheet Cyclohexanone MSDS

# Section 1: Chemical Product and Company Identification

Product Name: Cyclohexanone

Catalog Codes: SLC2671, SLC4459

CAS#: 108-94-1

RTECS: GW1050000

TSCA: TSCA 8(b) inventory: Cyclohexanone

CI#: Not available.

**Synonym:** Cyclohexyl ketone; Anone; Hexanon; Ketohexamethylene; Pimelic ketone; Pimelin ketone;

Sextone

Chemical Name: Cyclohexanone

Chemical Formula: C6H10O

Contact Information:

Sciencelab.com, Inc. 14025 Smith Rd. Houston, Texas 77396

US Sales: 1-800-901-7247

International Sales: 1-281-441-4400

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call:

1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

# Section 2: Composition and Information on Ingredients

#### Composition:

Name	CAS#	% by Weight
Cyclohexanone	108-94-1	100

**Toxicological Data on Ingredients:** Cyclohexanone: ORAL (LD50): Acute: 1516 mg/kg [Rat]. 1400 mg/kg [Mouse]. DERMAL (LD50): Acute: 948 mg/kg [Rabbit].

## Section 3: Hazards Identification

#### **Potential Acute Health Effects:**

Hazardous in case of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant, permeator).

#### **Potential Chronic Health Effects:**

CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC.

MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

The substance may be toxic to kidneys, liver, upper respiratory tract, skin, eyes, central nervous system (CNS).

Repeated or prolonged exposure to the substance can produce target organs damage.

## **Section 4: First Aid Measures**

### **Eye Contact:**

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

#### **Skin Contact:**

In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Serious Skin Contact: Not available.

#### Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

#### Serious Inhalation:

Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek medical attention.

#### Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

## Section 5: Fire and Explosion Data

Flammability of the Product: Flammable.

Auto-Ignition Temperature: 420°C (788°F)

Flash Points: CLOSED CUP: 43.889°C (111°F). OPEN CUP: 46°C (114.8°F).

Flammable Limits: LOWER: 1.1% UPPER: 9.4%

Products of Combustion: These products are carbon oxides (CO, CO2).

Fire Hazards in Presence of Various Substances: Flammable in presence of open flames and sparks, of heat.

#### **Explosion Hazards in Presence of Various Substances:**

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

#### Fire Fighting Media and Instructions:

Flammable liquid, soluble or dispersed in water.

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.

Special Remarks on Fire Hazards: Not available.

#### **Special Remarks on Explosion Hazards:**

Cyclohexanone forms explosive reaction with nitric acid at 75 deg. C.

Reaction of cyclohexanone with hydrogen peroxide + nitric acid forms an explosive peroxide.

Vapors may form explosive mixtures with air.

### Section 6: Accidental Release Measures

### Small Spill:

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

### Large Spill:

Flammable liquid.

Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

### Section 7: Handling and Storage

### Precautions:

Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Avoid contact with eyes. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids, alkalis.

### Storage:

Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

### Section 8: Exposure Controls/Personal Protection

### **Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

### Personal Protection:

Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

### Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

### **Exposure Limits:**

TWA: 50 from OSHA (PEL) [United States] Inhalation TWA: 25 (ppm) from ACGIH (TLV) [United States] SKIN TWA: 100 (mg/m3) from NIOSH [United States] SKIN TWA: 25 (ppm) from NIOSH [United States] SKIN

TWA: 100 (mg/m3) from OSHA (PEL) [United States] SKIN

TWA: 200 (mg/m3) from OSHA (PEL) [United States] InhalationConsult local authorities for acceptable exposure limits.

### **Section 9: Physical and Chemical Properties**

Physical state and appearance: Liquid. (Oily liquid.)

Odor: Odor reminiscent of of peppermint and acetone

Taste: Not available.

Molecular Weight: 98.15g/mole

Color: Colorless.

pH (1% soln/water): Not available.

Boiling Point: 155.6°C (312.1°F) @ 760 mm Hg

Melting Point: -31°C (-23.8°F)

Critical Temperature: 356°C (672.8°F)

Specific Gravity: 0.9478 (Water = 1)

Vapor Pressure: 0.7 kPa (@ 26.7°C)

Vapor Density: 3.4 (Air = 1)

Volatility: Not available.

Odor Threshold: 0.88 ppm

Water/Oil Dist. Coeff.: The product is more soluble in oil; log(oil/water) = 0.8

Ionicity (in Water): Not available.

**Dispersion Properties:** See solubility in water, diethyl ether, acetone.

Solubility:

Soluble in diethyl ether, acetone.

Partially soluble in cold water, hot water.

Solubility in water: 150 g/l @ 10 deg. C; 50 g/l @ 30 deg. C. Soluble in alcohol and other common organic solvents.

### **Section 10: Stability and Reactivity Data**

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Heat, ignition sources, incompatible materials

Incompatibility with various substances: Reactive with oxidizing agents, acids, alkalis.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity:

Incompatible with amines, nitric acid and other strong acids, strongt alkalies (bases) such as sodium hydroxide or potassium hydroxide, strong oxidizing agents (perchlorates, peroxides, permanganates, chlorates, nitrates, chlorine, bromine, fluorine)

Cyclohexanone can react vigorously with strong oxidizing materials.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

### Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Eye contact. Inhalation. Ingestion.

**Toxicity to Animals:** 

WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE.

Acute oral toxicity (LD50): 1400 mg/kg [Mouse]. Acute dermal toxicity (LD50): 948 mg/kg [Rabbit]. Acute toxicity of the vapor (LC50): 8000 4 hours [Rat].

### **Chronic Effects on Humans:**

CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC.

MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast. May cause damage to the following organs: kidneys, liver, upper respiratory tract, skin, eyes, central nervous system (CNS).

### Other Toxic Effects on Humans:

Hazardous in case of ingestion, of inhalation.

Slightly hazardous in case of skin contact (irritant, permeator).

### **Special Remarks on Toxicity to Animals:**

Lethal Dose/Conc 50% Kill:

LD50 [Rat] - Route: Oral; Dose: 1620 ul/kg LD50 [Rabbit] - Route: Skin; Dose: 1 ml/kg

### **Special Remarks on Chronic Effects on Humans:**

May cause adverse reproductive effects and birth defects(teratogenic).

May affect genetic material (mutagenic)

### **Special Remarks on other Toxic Effects on Humans:**

Acute Potential Health Effects:

Skin: Causes Skin irritation. Can be absorbed through the skin with possible systemic effects. Harmful if absorbed through skin.

Eyes: Causes eye irritation. Contact produces irritation, tearing, and burning pain. It may cause transient corneal injury.

Inhalation: It causes respiratory tract (nose, throat) irritation at airborne concentrations of 50 ppm; and 75 ppm causes marked irritation; and 125 ppm causes significant irritation. Vapors also cause eye irritation or conjunctivitis. Inhalation of vapors or mist can affect respiration, behavior/central nervous system and cause central nervous system depression with nausea, headache, lightheadedness, ataxia, somnolence, weakness, dizziness, loss of coordination. It may cause kidney and liver damage.

Ingestion: May be harmful if swallowed. It causes gastrointestional tract irriation with abdominla pain, nausea, vomiting, and diarrhea. It may cause liver and kidney damage. It may affect behavior/central nervous system and cause central nervous system depression characterized by excitement followed by headache, dizziness, drowsiness, nausea and other symptoms similar to inhalation. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure.

Chronic Potential Health Effects:

Skin: It can have a deffating effect on the skin.

Long term exposure to high concentration of vapors may cause clouding of the eyes.

Ingestion or Inhalation: Prolonged or repeated ingestion or inhalation may affect respiration and behavior/central nervous system with symptoms similar to that of acute inhalation. It may also cause kidney damage and affect metabolism (weight loss)

### Section 12: Ecological Information

Ecotoxicity: Ecotoxicity in water (LC50): 527 mg/l 96 hours [Fish (Fathead minnow (Pimephales promales))].

BOD5 and COD: Not available.

### **Products of Biodegradation:**

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

Special Remarks on the Products of Biodegradation: Not available.

### Section 13: Disposal Considerations

### Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

### **Section 14: Transport Information**

DOT Classification: CLASS 3: Flammable liquid.

Identification: : Cyclohexanone UNNA: 1915 PG: III

Special Provisions for Transport: Not available.

### Section 15: Other Regulatory Information

### Federal and State Regulations:

Connecticut hazardous material survey.: Cyclohexanone

Illinois toxic substances disclosure to employee act: Cyclohexanone

Illinois chemical safety act: Cyclohexanone New York release reporting list: Cyclohexanone

Pennsylvania RTK: Cyclohexanone

Minnesota: Cyclohexanone

Massachusetts RTK: Cyclohexanone Massachusetts spill list: Cyclohexanone

New Jersey: Cyclohexanone

New Jersey spill list: Cyclohexanone Louisiana spill reporting: Cyclohexanone

California Director's List of Hazardous Substances: Cyclohexanone

TSCA 8(b) inventory: Cyclohexanone

CERCLA: Hazardous substances.: Cyclohexanone: 5000 lbs. (2268 kg)

### Other Regulations:

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

### Other Classifications:

### WHMIS (Canada):

CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F)

CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC).

CLASS D-2B: Material causing other toxic effects (TOXIC).

### DSCL (EEC):

R10- Flammable.

R20- Harmful by inhalation.

S25- Avoid contact with eyes.

### HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 2

Reactivity: 0

Personal Protection: h

### National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 2

Reactivity: 0

Specific hazard:

**Protective Equipment:** 

Gloves.
Lab coat.
Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.
Splash goggles.

### **Section 16: Other Information**

References: Not available.

Other Special Considerations: Not available.

Created: 10/11/2005 11:44 AM

Last Updated: 11/06/2008 12:00 PM

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall ScienceLab.com be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if ScienceLab.com has been advised of the possibility of such damages.

# **PCI**

# GENERATOR'S WASTE PROFILE SHEET



COMPLETE - PRINT - SIGN - FAX (219) 397-6411

- A. GENERATOR INFORMATION	<del></del>		
Generator Name Zach System Corp.			
Facility Address 914 South 16th Street City La Port	9	State TX	Zip <b>77571</b>
Customer Name Ronald Smith		***************************************	***************************************
Customer Phone (281) 842-0201	367-1734	000000000000000000000000000000000000000	
Generator USEPA/Federal ID#			
Is the Generator a "Conditionally Exempt Small Quantity Generator"?	Yes 💿 1	No	
Generator's S.I.C. Code (4 Digit) 2992			
BILLING INFORMATION (Check HERE if billing information is the	same as above inf	formation)	
Billing Name CES Environmental Services, Inc.			
Billing Address 4904 Griggs City Houston	n	State TX	Zip <b>77021</b>
Billing Contact Name Juanita Thomas	***************************************		
Billing Phone (713) 676-1460 Billing FAX (713) 748	3-8664		***************************************
PCI Sales Rep.			
Is a representative sample provided?  Yes  ✓ No  Yes  ✓ No	Is a MSDS a	Walled:	Yes No
C. General Characteristics ————————————————————————————————————			<del></del>
Color <del>Solect</del> CLEWUSS Odor Mild - AMMOY	ia fishl	ire	
Physical State @ 70 F 100% %Liquid Select %SI	udge Select	%Solid Sel	ect %Powder
Select %Gas (Aerosol) Select %G	as (Other) Select	%Other	
Phases Single Layer Multi Layer How Many			
Btu/lb <3,000 3,000-5,000 5,000-1	0,000 🔘 >10	0,000	
PH <2.0 <b>O</b> 2.0 to 4.0 <b>O</b> 4.0 to 10.0 <b>C</b>	) 10.0 to 12.	5 🔵 >12.	50
			90
iquid Flash Point <73 F  73 to 99 F  100 to 139 F	140 to 200	>200 >200	Ξ _
	140 to 200	>200 >200	
Specific Gravity .7169 % Total Halogens Select			Ξ _
Specific Gravity .7169 % Total Halogens Select  D. CHEMICAL COMPOSITION (Total of Maximum concentration Constituents Min% Max% Const			FO None O
Specific Gravity .7169 % Total Halogens Select  O. CHEMICAL COMPOSITION (Total of Maximum concentration	must > or = to 10	00%)	None None Max%
Specific Gravity .7169 % Total Halogens Select  D. CHEMICAL COMPOSITION (Total of Maximum concentration Constituents Min% Max% Const	must > or = to 10	00%) ———————————————————————————————————	None None Max% et Select Select

E. OTHER WASTE STREAM INFORMATION						
Is this waste a "USED OIL" per 40CFR PART 279?	Yes No O					
If "Yes", does the total halogen content exceed 1,000 ppm?  Yes  No						
If "Yes", can you identify the "Chlorinated Constituent" present in the oil?	Yes No No					
If "Yes", can you rebut the presumption that this material is a "Hazardous Waste"?	•					
Does the Waste have any of the following characteristics? (Please select all that ap						
Oxidizer Organic Peroxide Water Reactive Air Reactive	O Pyrophoric O Dioxin					
Radioactive O Infectious O Pathogen O Carcinogen O Explosive O Shock Sensitive O Undergo Hazardous Polymerization	<ul><li>Etiological Aerosols</li><li>Cylinder</li></ul>					
Does the Waste contain any of the following?	Cymraei					
	LESS THAN or ACTUAL					
PCB'S • <50ppm ppm Sulfides • <	<50ppm ppm					
Cyanides Soppm ppm Phenolics So	<50ppm O ppm					
Does the waste represented by this profile contain benzene?  Yes	No 💿					
If "Yes", please list concentration inppm.						
Is the Waste subject to the benzene waste operations NESHAP? (40CFR Part 61, Second 2017)	ubpart FF) Yes No No					
Answer "Yes" if your waste contains benzene and if the SIC code from your facility						
	•					
	2841 2842 2843 2844 2851					
2861 2865 2869 2873 2874 2876 2879 2891 2892 2893 2896 2899 2	911 3312 4953 4959 9511					
Is the Waste subject to RCRA Subpart CC controls? (40 CFR 265 SUBPART CC)	Yes 🔵 No 🧿					
If "No", does the Waste meet the organic LDR exemption for UHC'S? (40 CFR 268.4	8, 268.7) Yes 💽 No 🔘					
If "No", does the Waste contain <500ppmw volatile organic(VO)? (40 CFR 265 SUB	BPART CC) Yes 💿 No 🔘					
Does the Waste contain any Class I or Class II ozone-depleting substances?	Yes No 💿					
If PCB'S are present, is the waste regulated by TSCA per 40 CFR 761?	Yes No O					
<u></u>						
F. SHIPPING INFORMATION:						
Method of Shipment						
Bulk Liquid(> 500 Gallons) Bulk Solids(roll-off box, vacuum box, etc)	Lab Pack					
Cubic Yard Boxes Totes (Please specify size)	***************************************					
Drums (Select size) 55 Other (Please specify)						
Shipping Frequency	rance and the second and the second and the second and the second and the second and the second and the second					
Number of Units Month Quarter Year 5	Other					
G. R.C.R.A. CHARACTERIZATION:						
Is this a USEPA "Hazardous Waste" per 40CFR 261.3?  Yes  No  If	"No", Please skip to section H.					
Is this a "Universal Waste" per 40CFR part 273?  Yes  No  O						
Is this a "Characteristic Waste"? Yes   No   No   No   No   No   No   No   N						
If "Yes", is it: ✓ D001 Ignitable ✓ D002 Corrosive □ D003	Reactive					
Characteristic for Toxic Metals:						
O D004 O D005 O D006 O D007 O D008 O D009	OD010 OD011					

G. R.C.R.A. CHARACT		` '					
Is this an "F" or "K" List	ed waste or	r mixed with a	ne?	Yes 🔘	No 💽		
If "Yes", Please list all a	• •				gran		
Is this a commercial ch	nemical prod	duct or spill cl	eanup that				
waste code under 40		• •	Yes <b>(</b>	) N	lo <b>(</b> )	12-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-	
If "Yes", Please list all a			\$				
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Is this a U.S. Dept. of T			azardous N	Material?	Yes 💽	No 🔘	
Proper Shipping Name	•			2000			
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Hazard Class or Division	######################################		JN1158	Packing C	Group	· 🗸	IIIII
Is this a "Poison Inhala	\$		Yes 🔿	No 🥑			- -
If "Yes", Please indicate			ne A	Zone B	Zone C	Zone D	Other
List two primary hazar			sopropylam		2		
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Date Received	APPRC	OVER'S INITIALS		РК	OFILE NUMBER	² 1	
PROCESS CODE		PRI	CE		TRANS		
PROPER WASTE CODES	5						
PROPER D.O.T. SHIPPIN	ig name						
HAZARD CLASS	UN	NA	PACKING	GROUP	1	II	III
N.O.S DESCRIPTIONS							
YARD INSTRUCTIONS							
NO LANDFILL CUST	OMER	RUN SA	ALES ANAL	YTICAL		MSDS ATTAC	CHED
NO SAMPLE APPRO	DVAL	N/H FC	OR METALS	PER GEN.		SEE ATTACHE	ED ANALYTICAL
		RUN O	X. SCREEN	ON INCOMIN	G	RUN COMP.	ON INCOMING
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# Material Safety Data Sheet Diisopropylamine MSDS

### **Section 1: Chemical Product and Company Identification**

Product Name: Diisopropylamine

Catalog Codes: SLD2536

CAS#: 108-18-9

RTECS: IM4025000

TSCA: TSCA 8(b) inventory: Diisopropylamine

CI#: Not available.

**Synonym:** N-(1-Methylethyl)-2-propanamine;

2-Propanamine, N-(1-methylethyl)-

Chemical Name: Diisopropylamine

Chemical Formula: C6H15N

**Contact Information:** 

Sciencelab.com, Inc. 14025 Smith Rd. Houston, Texas 77396

US Sales: 1-800-901-7247

International Sales: 1-281-441-4400

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call:

1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

# Section 2: Composition and Information on Ingredients Composition: Name CAS # % by Weight Diisopropylamine 108-18-9 100

**Toxicological Data on Ingredients:** Diisopropylamine: ORAL (LD50): Acute: 770 mg/kg [Rat]. 2120 mg/kg [Mouse]. 4700 mg/kg [Rabbit]. DERMAL (LD50): Acute: >10000 mg/kg [Rabbit]. VAPOR (LC50): Acute: 4200 mg/m 2 hours [Mouse].

### Section 3: Hazards Identification

### **Potential Acute Health Effects:**

Very hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion. Hazardous in case of inhalation. Slightly hazardous in case of skin contact (corrosive, permeator), of eye contact (corrosive). Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

### **Potential Chronic Health Effects:**

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

The substance may be toxic to lungs, mucous membranes, upper respiratory tract, skin, eyes. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.

### **Section 4: First Aid Measures**

### **Eye Contact:**

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

### **Skin Contact:**

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

### **Serious Skin Contact:**

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

#### Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

### Serious Inhalation:

Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.

#### Inaestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

### Section 5: Fire and Explosion Data

Flammability of the Product: Flammable.

Auto-Ignition Temperature: 316°C (600.8°F)

Flash Points: CLOSED CUP: -7°C (19.4°F). OPEN CUP: -1°C (30.2°F).

Flammable Limits: LOWER: 0.8% UPPER: 7.1%

Products of Combustion: These products are carbon oxides (CO, CO2).

Fire Hazards in Presence of Various Substances: Highly flammable in presence of open flames and sparks, of heat.

### **Explosion Hazards in Presence of Various Substances:**

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available. Slightly explosive in presence of heat.

### Fire Fighting Media and Instructions:

Flammable liquid, soluble or dispersed in water.

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use alcohol foam, water spray or fog.

### Special Remarks on Fire Hazards:

When heated to decomposition it emits toxic fumes of nitrogen oxides.

Vapor may travel considerable distance to source of ignition and flash back. May form explosive mixtures with air.

Special Remarks on Explosion Hazards: Vapors may form explosive mixtures with air.

### Section 6: Accidental Release Measures

### **Small Spill:**

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

### Large Spill:

Flammable liquid. Corrosive liquid.

Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Use water spray curtain to divert vapor drift. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

### Section 7: Handling and Storage

### **Precautions:**

Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, acids.

### Storage:

Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

### **Section 8: Exposure Controls/Personal Protection**

### **Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

### **Personal Protection:**

Face shield. Full suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. Boots.

### Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

### **Exposure Limits:**

TWA: 5 (ppm) from OSHA (PEL) [United States] SKIN

TWA: 5 (ppm) from ACGIH (TLV) [United States] SKIN

TWA: 5 from NIOSH [United States] SKIN

TWA: 20 (mg/m3) from NIOSH [United States] SKIN

TWA: 5 (ppm) [United Kingdom (UK)] SKIN

TWA: 5 (ppm) [Belgium] SKIN TWA: 5 (ppm) [Finland] SKIN

TWA: 20 (mg/m3) from OSHA (PEL) [United States] SKIN

TWA: 5 (ppm) [Norway] SKIN

Consult local authorities for acceptable exposure limits.

### Section 9: Physical and Chemical Properties

Physical state and appearance: Liquid.

Odor: Ammoniacal. Fish-like.

Taste: Not available.

Molecular Weight: 101.19 g/mole

Color: Colorless.

pH (1% soln/water): Not available.

Boiling Point: 84°C (183.2°F)

Melting Point: -61°C (-77.8°F)

Critical Temperature: 249°C (480.2°F)

Specific Gravity: 0.7169 (Water = 1)

Vapor Pressure: 8 kPa (@ 20°C)

Vapor Density: 3.5 (Air = 1)

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: The product is more soluble in oil; log(oil/water) = 1.4

Ionicity (in Water): Not available.

Dispersion Properties: See solubility in water, diethyl ether, acetone.

Solubility:

Easily soluble in diethyl ether, acetone.

Partially soluble in cold water. Very soluble in benzene, ethanol.

### **Section 10: Stability and Reactivity Data**

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Heat, ignition sources, incompatible materials

Incompatibility with various substances: Reactive with oxidizing agents, acids.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity:

It will react vigorously with oxidizing materials. It will also react with strong acids.

Diisopropylamine may attack some forms of plastic.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

### Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.

**Toxicity to Animals:** 

WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE.

Acute oral toxicity (LD50): 770 mg/kg [Rat].

Acute dermal toxicity (LD50): >10000 mg/kg [Rabbit].

Acute toxicity of the vapor (LC50): 4200 mg/m3 2 hours [Mouse].

### **Chronic Effects on Humans:**

MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast.

May cause damage to the following organs: lungs, mucous membranes, upper respiratory tract, skin, eyes.

### Other Toxic Effects on Humans:

Very hazardous in case of skin contact (irritant), of ingestion.

Hazardous in case of inhalation (lung corrosive).

Slightly hazardous in case of skin contact (corrosive, permeator), of eye contact (corrosive).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: May affect genetic material (mutagenic)

### Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects:

Skin: It causes severe skin irritation and burns. Causes smarting of skin and first-degree burns on short exposure; may cause second-degree burns on long exposure. It may be absorbed through the skin with possible systemic effects.

Eyes: Contact with liquid causes severe eye irritation and burns with possible loss of vision. Contact with vapors causes irritation disturbances of vision or visual impairment

Inhalation: It can cause respiratory tract (nose, throat, lungs) and mucous membrane irritation with coughing and/or shortness of breath, and possible burns to the respiratory tract. Higher exposures can cause pulmonary edema. Inhalation of vapors can cause headache, nausea, vomiting, dizziness or coma, or suffocation. May also cause vision problems and cause pulmonary edema.

Ingestion: May be harmful if swallowed. Causes gastrointestinal tract irritation with sore throat, vomiting, diarrhea, burns to the mouth, throat and stomach.

Chronic Potential Health Effects:

Skin: Repeated or prolonged skin contact may cause dermatitis

### Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

### **Products of Biodegradation:**

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

Special Remarks on the Products of Biodegradation: Not available.

### **Section 13: Disposal Considerations**

### **Waste Disposal:**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

### **Section 14: Transport Information**

### **DOT Classification:**

CLASS 3: Flammable liquid. Class 8: Corrosive material

Identification: : Diisopropylamine UNNA: 1158 PG: II

Special Provisions for Transport: Not available.

### Section 15: Other Regulatory Information

### Federal and State Regulations:

Connecticut hazardous material survey.: Diisopropylamine

Illinois toxic substances disclosure to employee act: Diisopropylamine

Rhode Island RTK hazardous substances: Diisopropylamine

Pennsylvania RTK: Diisopropylamine

Florida: Diisopropylamine Minnesota: Diisopropylamine

Massachusetts RTK: Diisopropylamine Massachusetts spill list: Diisopropylamine

New Jersey: Diisopropylamine

TSCA 8(b) inventory: Diisopropylamine

### Other Regulations:

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

### Other Classifications:

### WHMIS (Canada):

CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).

CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC).

CLASS E: Corrosive liquid.

### DSCL (EEC):

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 3

Reactivity: 0

**Personal Protection:** 

### National Fire Protection Association (U.S.A.):

Health: 3

Flammability: 3

Reactivity: 0

Specific hazard:

**Protective Equipment:** 

Gloves. Full suit.

Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Face shield.

### **Section 16: Other Information**

References: Not available.

Other Special Considerations: Not available.

Created: 10/11/2005 11:49 AM

Last Updated: 11/06/2008 12:00 PM

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# **PCI**

# GENERATOR'S WASTE PROFILE SHEET



COMPLETE - PRINT - SIGN - FAX (219) 397-6411

A. GENERATOR INFORMATION ————————————————————————————————————		····
Generator Name Zach System Corp.		
Facility Address 914 South 16th Street City La Porte	State TX	Zip 77571
Customer Name Ronald Smith		
Customer Phone (281) 842-0201	According to the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the cont	
Generator USEPA/Federal ID#	<b>0000000000</b>	
Is the Generator a "Conditionally Exempt Small Quantity Generator"?	<ul><li>No</li></ul>	
Generator's S.I.C. Code (4 Digit) 2992		
BILLING INFORMATION (Check HERE if billing information is the same as ab	ove information)	]
Billing Name CES Environmental Services, Inc.		
Billing Address 4904 Griggs City Houston	State TX	Zip 77021
Billing Contact Name Juanita Thomas		
Billing Phone (713) 676-1460 Billing FAX (713) 748-8664		
PCI Sales Rep.		
Is there any analytical attached? Yes Vo		
C. GENERAL CHARACTERISTICS		·
Color Select COLDNHSS Odor Strong acetic		
Physical State @ 70 F 100% %Liquid Select %Sludge	Select %Solid S	elect %Powder
Select %Gas (Aerosol) Select %Gas (Other)	Select %Other	
Phases Single Layer Multi Layer How Many		
Btu/lb <3,000	>10,000 🔘	
PH <2.0 • 2.0 to 4.0 • 4.0 to 10.0 • 10.0	to 12.5 O >12	2.5 🔿
Liquid Flash Point <73 F 73 to 99 F 100 to 139 F 140	to 200 F >200	FO None O
Specific Gravity 1.08 % Total Halogens Select		
D. CHEMICAL COMPOSITION (Total of Maximum concentration must > or	•	-0/ M- 0/
Constituents Min% Max% Constituents	Mir Sel	
Acetic Anhydride 90% 100% Select Select	Sel	
Select Select Select Select	Sel	
, 001001 001001	1 367	

E. OTHER WASTE STREAM INFORMATION	No. 6					
Is this waste a "USED OIL" per 40CFR PART 279?  Yes No  No  No  No  No  No  No  No  No  No						
If "Yes", does the total halogen content exceed 1,000 ppm?  Yes No						
If "Yes", can you identify the "Chlorinated Constituent" present in the oil?  Yes O	No O					
If "Yes", can you rebut the presumption that this material is a "Hazardous Waste"? Yes	No 🔘					
Does the Waste have any of the following characteristics? (Please select all that apply)						
Oxidizer Organic Peroxide OWater Reactive OAir Reactive OPyrophori Radioactive OInfectious OPathogen OCarcinogen OEtiologica	<del></del>					
Radioactive O Infectious O Pathogen O Carcinogen O Etiologica O Explosive O Shock Sensitive O Undergo Hazardous Polymerization O Cylinder	ii Aerosois					
Does the Waste contain any of the following?						
None or LESS THAN or ACTUAL None or LESS THAN	or ACTUAL					
PCB'S O <50ppm ppm Sulfides <50ppm	ppm					
Cyanides • <50ppm ppm Phenolics • <50ppm	ppm					
Does the waste represented by this profile contain benzene?  Yes  No	9					
If "Yes", please list concentration inppm.						
Is the Waste subject to the benzene waste operations NESHAP? (40CFR Part 61, Subpart FF) Ye	es O No O					
Answer "Yes" if your waste contains benzene and if the SIC code from your facility is one of the fo	ollowing:					
2812 2813 2816 2819 2821 2822 2823 2824 2833 2834 2835 2836 2841 2842 28	343 2844 2851					
2812 2813 2816 2819 2821 2822 2823 2824 2833 2834 2835 2836 2841 2842 28 2861 2865 2869 2873 2874 2876 2879 2891 2892 2893 2896 2899 2911 3312 49						
1	s O No O					
	s No O					
	s No O					
1	s No 💽					
If PCB'S are present, is the waste regulated by TSCA per 40 CFR 761?	s No 💿					
F. SHIPPING INFORMATION:						
Method of Shipment						
Bulk Liquid(> 500 Gallons) Bulk Solids(roll-off box, vacuum box, etc) Lab I	Pack					
Cubic Yard Boxes Totes (Please specify size)						
Drums (Select size) 55 Other (Please specify)						
Shipping Frequency						
Number of Units Month Quarter Year 5 Other						
G. R.C.R.A. CHARACTERIZATION:						
Is this a USEPA "Hazardous Waste" per 40CFR 261.3? Yes No If "No", Please si	kip to section H.					
Is this a "Universal Waste" per 40CFR part 273?  Yes No  No						
Is this a "Characteristic Waste"?  Yes  No  O						
If "Yes", is it: ✓ D001 Ignitable ✓ D002 Corrosive D003 Reactive						
Characteristic for Toxic Metals:						
O D004 O D005 O D006 O D007 O D008 O D009 O D010	OD011					

I see an arm on MVII Link	·	طفانين لمحدث	0	Van 🔿	No C		
Is this an "F" or "K" List				Yes O	No 💽		gan aan aan aan aan aan ah aa ah ah ah ah ah ah ah ah ah ah ah
If "Yes", Please list all	• •				>	***************************************	
Is this a commercial cl	-	-	·	=			
waste code under 40			Yes 🔘	NC	•		***************************************
If "Yes", Please list all	• •		be				
Is this a state regulate			es 💽 No (	<u> </u>			
If "Yes", Please list all	codes.	······································				······································	
H. DOT SHIPPING INF	ORMATION:						
Is this a U.S. Dept. of 1	Transportatio	on (USDOT) H	Hazardous Mat	erial?	Yes 💽	No 🔘	
Proper Shipping Name	e per 49CFR	172.101 Haz	ardous Materia	als Table: A	cetic Anhydride	***************************************	
"Reportable Quantity"	' (if any) 100	)	lbs			***************************************	***************************************
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Is this a "Poison Inhala	ation Hazard'	"?	Yes 🔘	No 🗿			
If "Yes", Please indicat	e Hazard Zo	one 🔲 Z	one A	Zone B	Zone C	Zone D	Other
List two primary hazar			cetic Anhydride		2		
I. GENERATOR CERTIF	FICATION: —				<u></u>		· · · · · ·
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knowledge and ability	y. No deliber	ate or willful	omissions of o				at
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MSDS Number: A0338 * * * * * * Effective Date: 05/19/08 * * * * * Supercedes: 08/18/05



### Material Safety Data Sheet

Phillipsburg, NJ 08865





24 Hour Emergency Telephone: 908-959-2151

National Response in Canada CANUTEC: 613-996-6666

Outside U.S. and Canada Chemtrec: 703-527-3887

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, line, exposure or accident involving chemicals.

All non-emergency questions should be directed to Customer Service (1-800-582-2537) for assistance.

# **ACETIC ANHYDRIDE**

### 1. Product Identification

Synonyms: Acetyl oxide; Acetic acid anhydride; Acetic oxide; Ethanoic anhydride

CAS No.: 108-24-7

Molecular Weight: 102.09

Chemical Formula: (CH3CO)2O

**Product Codes:** J.T. Baker: 0018 Mallinckrodt: 2420

# 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Acetic Anhydride	108-24-7	97 - 100%	Yes

# 3. Hazards Identification

**Emergency Overview** 

http://www.jtbaker.com/msds/englishhtml/a0338.htm

7/24/2009

DANGER! CORROSIVE. CAUSES BURNS TO ANY AREA OF CONTACT. FLAMMABLE LIQUID AND VAPOR. WATER REACTIVE. HARMFUL IF SWALLOWED OR INHALED. VAPOR CAUSES RESPIRATORY TRACT IRRITATION AND SEVERE EYE IRRITATION.

**SAF-T-DATA**(tm) Ratings (Provided here for your convenience)

Health Rating: 3 - Severe

Flammability Rating: 2 - Moderate Reactivity Rating: 2 - Moderate

Contact Rating: 4 - Extreme (Corrosive)

Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD;

_____

PROPER GLOVES; CLASS B EXTINGUISHER Storage Color Code: Red Stripe (Store Separately)

**Potential Health Effects** 

### Inhalation:

Vapors are corrosive to the mucous membranes of the upper respiratory tract. Exposure to vapors may cause irritation of the nose, throat, and coughing. Exposure to high concentrations may result in severe damage to the lungs. Symptoms of lung edema are often delayed and are aggravated by physical effort.

### **Ingestion:**

Corrosive. Causes a burning pain in the stomach, followed by nausea and vomiting.

### **Skin Contact:**

Corrosive: Does not cause severe burning on contact but can cause delayed reaction burns. If not removed by washing, the skin may become reddened and later turn white and wrinkled. Continued skin contact may cause dermatitis.

### **Eye Contact:**

Corrosive: Contact with the liquid or vapor may produce a burning sensation and tearing. Redness, pain and blurred vision may be followed by permanent eye damage. The appearance of eye burns may be delayed. Irritation effects begin with airborne concentrations as low as 0.36 mg/m3.

### **Chronic Exposure:**

Repeated and prolonged exposure to vapor may cause irritation of the skin and chronic eye irritation.

### **Aggravation of Pre-existing Conditions:**

Persons with pre-existing skin disorders or eye problems, or impaired respiratory function may be more susceptible to the effects of the substance.

### 4. First Aid Measures

### Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

### **Ingestion:**

http://www.jtbaker.com/msds/englishhtml/a0338.htm

7/24/2009

If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

### **Skin Contact:**

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse.

### **Eve Contact:**

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

# 5. Fire Fighting Measures

### Fire:

Flash point: 49C (120F) CC

Autoignition temperature: 316C (601F) Flammable limits in air % by volume:

lel: 2.7; uel: 10.3 Flammable. **Explosion:** 

Above flash point, vapor-air mixtures are explosive within flammable limits noted above. Sealed containers may rupture when heated. Vapors can flow along surfaces to distant ignition source and flash back. A violent exothermic reaction occurs with water. Sufficient heat may be produced to ignite combustible materials. Sensitive to static discharge.

### Fire Extinguishing Media:

Water spray, dry chemical, alcohol foam, or carbon dioxide. Use water with caution as material reacts with water.

### **Special Information:**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Use water spray to blanket fire, cool fire exposed containers, and to flush non-ignited spills or vapors away from fire.

### 6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Water spray may be used to disperse vapors and dilute spills to nonflammable mixtures, but be aware of the potential for violent reaction with water. Neutralize with soda ash or lime. Contain and recover liquid when possible. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

# 7. Handling and Storage

Protect against physical damage. Store in a cool, dry well-ventilated location, away from any area where the fire hazard may be acute. Outside or detached storage is preferred. Separate from incompatibles. Containers should be bonded and grounded for transfers to avoid static sparks. Storage and use areas should be No Smoking areas. Use non-sparking type tools and equipment, including explosion proof ventilation. Keep away from water. This material is corrosive to steel, galvanized iron, copper and copper alloys. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

# 8. Exposure Controls/Personal Protection

### **Airborne Exposure Limits:**

- -OSHA Permissible Exposure Limit (PEL):
- 5 ppm (TWA)
- -ACGIH Threshold Limit Value (TLV):
- 5 ppm (TWA);
- -NIOSH Recommended Exposure Limit (REL):
- 5 ppm (Ceiling)

### Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation*, *A Manual of Recommended Practices*, most recent edition, for details.

### Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded and engineering controls are not feasible, a full facepiece respirator with organic vapor cartridge may be worn up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

### **Skin Protection:**

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Rubber and neoprene are recommended materials for personal protective equipment.

### **Eye Protection:**

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

# 9. Physical and Chemical Properties

Appearance:

Clear, colorless liquid.

Odor:

Strong acetic odor; good warning properties.

**Solubility:** 

Slowly soluble in water (reacts)

**Specific Gravity:** 

1.08 @ 15C/4C

pH:

No information found.

% Volatiles by volume @ 21C (70F):

100

**Boiling Point:** 

140C (284F)

**Melting Point:** 

-73C (-99F)

Vapor Density (Air=1):

3.52

Vapor Pressure (mm Hg):

4 @ 20C (68F)

**Evaporation Rate (BuAc=1):** 

0.46

# 10. Stability and Reactivity

### **Stability:**

Stable under ordinary conditions of use and storage. Heat will contribute to instability.

### **Hazardous Decomposition Products:**

When heated to decomposition, it emits toxic fumes such as acetic acid and carbon monoxide. Reacts violently with water to yield acetic acid and much heat.

### **Hazardous Polymerization:**

Will not occur.

### **Incompatibilities:**

Water, steam, mineral acids, oxidizing materials, alcohols, or amines may cause violent reaction. Contact with strong caustics will cause violent reaction and spattering. Corrosive to copper, brass, bronze, and iron.

### **Conditions to Avoid:**

Heat, flames, ignition sources, water and incompatibles.

# 11. Toxicological Information

Oral rat LD50: 1780 mg/Kg; inhalation rat LC50: 1000 ppm/4-hour; skin rabbit LD50 4

7/24/2009

mL/kg; Irritation data: Skin rabbit, Open Draize, 10 mg/24H mild; Eye rabbit, Open Draize, 250 ug severe

# 12. Ecological Information

### **Environmental Fate:**

When released into the soil, this material is expected to leach into groundwater. When released to water, this material is expected to react and form acetic acid. This material is not expected to significantly bioaccumulate.

### **Environmental Toxicity:**

No information found.

# 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

# 14. Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name: ACETIC ANHYDRIDE

Hazard Class: 8, 3 UN/NA: UN1715 Packing Group: II

Information reported for product/size: 40LB

International (Water, I.M.O.)

Proper Shipping Name: ACETIC ANHYDRIDE

Hazard Class: 8, 3 UN/NA: UN1715 Packing Group: II

Information reported for product/size: 40LB

### International (Air, I.C.A.O.)

Proper Shipping Name: ACETIC ANHYDRIDE

Hazard Class: 8, 3 UN/NA: UN1715 Packing Group: II

Information reported for product/size: 40LB

# 15. Regulatory Information

\Chemical Inventory Status - Part Ingredient		TSCA	EC	Japan	Australia
Acetic Anhydride (108-24-7)					Yes
\Chemical Inventory Status - Part	2\			 anada	
Ingredient					Phil.
Acetic Anhydride (108-24-7)				No	
\Federal, State & International Re					 A 313
Ingredient	RQ	TPQ	Lis	st Che	mical Catg.
Acetic Anhydride (108-24-7)					
\Federal, State & International Re	gulati			2\ T	
Ingredient		ıΑ	261.33	3 8	(d)
Acetic Anhydride (108-24-7)				 N	
Chemical Weapons Convention: No TSCA 12 CARA 311/312: Acute: Yes Chronic: Yes Reactivity: Yes (Pure / Liquid)					

Australian Hazchem Code: 2P

Poison Schedule: S6

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

## 16. Other Information

NFPA Ratings: Health: 3 Flammability: 2 Reactivity: 1

Label Hazard Warning:

7/24/2009

DANGER! CORROSIVE. CAUSES BURNS TO ANY AREA OF CONTACT. FLAMMABLE LIQUID AND VAPOR. WATER REACTIVE. HARMFUL IF SWALLOWED OR INHALED. VAPOR CAUSES RESPIRATORY TRACT IRRITATION AND SEVERE EYE IRRITATION.

### **Label Precautions:**

Do not get in eyes, on skin, or on clothing.

Do not contact with water.

Do not breathe vapor.

Keep container closed.

Use only with adequate ventilation.

Wash thoroughly after handling.

Keep away from heat, sparks and flame.

### **Label First Aid:**

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. In all cases get medical attention immediately.

### **Product Use:**

Laboratory Reagent.

### **Revision Information:**

No Changes.

Disclaimer:

*************************

**Prepared by:** Environmental Health & Safety Phone Number: (314) 654-1600 (U.S.A.)



E-MAILED

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Genera	ator Information	on												
Company:	ZaCh System Corp. (La Porte)													
Address :	914 South 1	6th Stre	et 914	South	16th Str	reet								
City, State, Zip:	La Porte TX	77571											-	
Contact :	Ronald Smit	h						Title :						
Phone No:	(281) 842-02	201						Fax :		(281) 86	67-1734			
24 / HR Phone :								_						
U.S EPA I.D No:	TXR0000790	)62												
State I.D :	88429							SIC Co	de	2992				
SECTION 2: Billing	Information													
Company:	ZaCh Syster	n Corp.	— (La Po	rte)										
Address :	914 South 10		<del></del>	<i>-</i>	16th Str	eet				-	·		-	
City, State, Zip :	La Porte TX						<del></del> -						-	<del></del>
Contact :	Ronald Smit	h						Title :						
Phone No :	(281) 842-02	:01						Fax :	-	(281) 86	57-1734			
SECTION 3: Genera	al Description	of the W	aste											
Name of Waste :	Electronic wa	aste												
Detailed Descript	ion of the Pr	ocess	Genera	ating W	aste:									
Out dated, non fur	nctional electr	onic wa	ste											
Physical State :	Liqui	d		∭ Slu	ıdge		Pov	wder						
	<b>✓</b> Solid			■ Fill	er Cake		(iii) Co	mbinatior	n					
Color :				varies		Od	or:					none		
Specific Gravity (	Water=1) :			na		Dei	nsity :				na			lbs / gal
Does this material of	contain any to	tal phen	olic cor	npound	s?	Ye	s	✓ No						
Does this material o	contain any pa	ıra subsi	tituted	phenolic	compo	unds?		Yes		<b>✓</b> No				
Is the Waste subjec	t to the benze	ne wast	e opera	tion NE	SHAP? (	40 CFR F	Part 61,	Subpart F	F)	[	Yes		No	
2812 2813 2	816 2819	2821	2822	2823	2824	2833	2834	2835	283	6 284	1 2842	2843	2844	2851
2861 2865 2	869 2873	2874	2876	2879	2891	2892	2893	2896	289	9 291	1 3312	4953	4959	9511
Layers :	<b>✓</b> Singl	e-Phas		Mu	lti-Pha	se								
Container Type :	Drum	1 <u>*</u>	] 1	ote	13 201	Truck	✓	Other (e	expl	lain)		pall	et	
Container Size :	palle	<u> </u>												
Number Of Units	:		•											
Is this a USEPA "H If "Yes", then ple		-					<b>Yes</b> onstituer	✓ No nts Form a		hed herel	to			
If "Yes", is it:	D001	D002		D003										

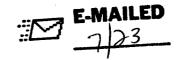
Characteristic for Toxic i		D009	0011	
Characteristics for Toxic	Organics: D012 thru D043			
Is this an "F" or "K" Liste	ed waste or mixed with one	? Yes 🔀 No		
If "Yes", then please	list ALL applicable codes:			
Is this a commercial prod 261.33(e) or (f)?	duct or spill cleanup that wo	ould carry a "U" or "P" was	te code under 40 CFR	Yes 🔣 No
If "Yes", then please	list ALL applicable codes:			
Texas State Waste Code	e No: UNIV320	H		
Proper U.S. State Waste	Code No : UN3	3077, Environmentally Haza	ardous Substance, Solid, N.	O.S., 9, PG III
Class: 9	<b>UN/NA</b> : UN30	77 PG:	III	RQ:na
Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
na	na	na mg/l	namg/l	100 %
Oil and Grease	тос	Zinc	Copper	Nickel
>100 mg/l	na mg/l	na mg/l	na mg/l	na mg/l
SECTION 4: Physical and 0	Chemical Data			
	COMPONENTS TABLE	The form of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the	Concentration	on Units
	product consists of the fo		Ranges are acce	Service 12 to 1679 MIN to Address I corbanico con Banco Consultation (III corporate Min Special)
OL	it dated, non functional electron	nic waste	100	%
		<u>,</u>		
SECTION 5: Safety Related			m4 mlaaga assminin	
r th <b>e nandling of this wa</b> std	aste requires the use of sp	peciai protective equipme	nt, piease expiain.	
ECTION 6: Attached Supp	orting Documents			
ist all documents, note	s, data, and/or analysis at	tached to this form as par	rt of the waste approval pa	ıckage.
ione				
FCTION 7. In a compatibiliti				
ECTION 7: Incompatibilitie Please list all incompatil				
one	sindos (ir diry).			
ECTION 8: Generator's Kn	owledge Documentation			
aboratory analysis of thollowing generators known		cteristics, listed below, W	AS NOT PERFORMED bas	sed upon the
CLP Metals :	<u>x</u>			
CLP Volatilies :	<u>X</u>			
CLP Semi-Volatiles :	<u>x</u>			
Reactivity :	X			
		2		

	FION 9: Waste Receipt Classification Under 40 CFR 437  s material a wastewater or wastewater sludge ?   ✓ YES ✓ NO
	• = = = = = = = = = = = = = = = = = = =
	S', complete this section
PLE	ASE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE
Mata	als Subcategory: Subpart A
	Spent electroplating baths and/or sludges
	Metal finishing rinse water and sludges
	Chromate wastes
	Air pollution control blow down water and sludges
	Spent anodizing solutions
	Incineration wastewaters
	Waste liquid mercury
	Cyanide-containing wastes greater than 136 mg/l
	Waste acids and bases with or without metals
	Cleaning, rinsing, and surface preparation solutions from electroplating or phosph
	Vibratory deburring wastewater
	Alkaline and acid solutions used to clean metal parts or equipment
Oils :	Subcategory: Subpart B
	Used oils
	Oil-water emulsions or mixtures
	Lubricants
	Coolants
	Contaminated groundwater clean-up from petroleum sources
	Used petroleum products
	Oil spill clean-up
	Bilge water
	Rinse/wash waters from petroleum sources
	Interceptor wastes
	Off-specification fuels
	Underground storage remediation wastes
	Tank clean-out from petroleum or oily sources
	Non-contact used glycols
	Aqueous and oil mixtures from parts cleaning operations
	Wastewater from oil bearing paint washes
Orga	nics Subcategory <i>Subpart C</i>
	Landfill leachate
	Contaminated groundwater clean-up from non-petroleum sources
	Solvent-bering wastes
	Off-specification organic product
	Still bottoms
	Byproduct waste glycol
	Wastewater from paint washes
	Wastewater from adhesive and/or enoxies formulation

Corrosivity : Ignitability :

Wastewater from organic chemical product operations

	Tank clean-out from organic, non-petroleum sources	
1)	) If the waste contains oil and grease at or in excess of 100 mg/L, the waste	should be classified in the oils subcategory
2)	e) If the waste contains oil and grease less than 100 mg/L, and has any of the excess of the values listed below, the waste should be classified in the met	
	Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L	
3)	b) If the waste contains oil and grease less than 100 mg/L, and does not have or nickel above any of the values listed above, the waste should be classified.	
	☐ Metals Subcatego	
	☐ Oils Subcatego	
	☐ Organics Subcategory	
EΘ	ECTION 10: Additional Instruction	
Chi on	you cannot determine the correct subcategory in Section 9 and you did not fu hromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a componcentrations. This will be prior to acceptance. The generator will be responsible ECTION 11: Generator's Certification	mercial laboratory a sample to determine these
bc lel	ne information contained herein is based on  generator knowledge and stached description is complete and accurate to the best of meliberate or willful omissions of composition properties exist and that all sclosed. I certify that the materials tested are representative of all materials	y knowledge and ability to determine that no I known or suspected hazards have been
<b>4</b> u	uthorized Signature :	Date :
Pri	rinted Name / Title :	
CE	CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information :
Cc	Compliance Officer :	
Da	Date: Status: Approved Rejected	
Αp	Approval Number :	



# PCI

# GENERATOR'S WASTE PROFILE SHEET



COMPLETE - PRINT - SIGN - FAX (219) 397-6411

Generator Name Zach System Corp.	a water to the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the contro	
Generator Name Zach System Corp. Facility Address 914 South 16th St. City La Porte	State TX: Zip 775	71
Customer Name Ronald Smith		
Customer Phone 281-842-0201 Customer FAX 281-867-1734		
Senerator USEPA/Federal ID# TXR000079062		
s the Generator a "Conditionally Exempt Small Quantity Generator"? Yes 🛞 No	)	
Generator's S.I.C. Code (4 Digit)		
BILLING INFORMATION (Check HERE if billing information is the same as above infor	rmation) 🔀	
Billing Name	<del></del>	
Billing Address City S	State Zip	
Billing Contact Name	S. F. Silve and Principle Co. S. S. S. S. S. S. S. S. S. S. S. S. S.	
Billing Phone Billing FAX	The second spring area of the second spring second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second	
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Name of the Waste I, 4-1) ioxane Original Process Generating Waste out of date products a representative sample provided? Yes X No Is a MSDS atta	ached? XYes N	Vo
Name of the Waste I, 4-1) ioxane Original Process Generating Waste out of date products a representative sample provided? Yes X No Is a MSDS atta	ached? XYes N	Vo
B. WASTE STREAM INFORMATION  Solution of the Waste	ached? XYes N	Vo
S. WASTE STREAM INFORMATION  Jame of the Waste	ached? XYes N	Vo
B. WASTE STREAM INFORMATION  Jame of the Waste  Original Process Generating Waste  out of date products  is a representative sample provided?  Tyes  No  Is a MSDS attachere any analytical attached?  GENERAL CHARACTERISTICS  Color Colorless  Odor Shereal	ached? Yes N	
As waste stream information  Jame of the Waste J. 4-Dioxane  Original Process Generating Waste out of date product;  Is a representative sample provided? Yes X No Is a MSDS attachere any analytical attached? Yes X No  GENERAL CHARACTERISTICS  Color Color/USS Odor Shereh  Physical State @ 70 F 100 %Liquid %Sludge		
As WASTE STREAM INFORMATION  Waste J. 4-Dioxane  Original Process Generating Waste out of dute products as a representative sample provided? Yes No Is a MSDS attacher any analytical attached? Yes No  C. GENERAL CHARACTERISTICS  Color Color/USS Odor Abereal  Physical State @ 70 F 100 %Liquid %Sludge  %Gas (Aerosol) %Gas (Other)  Phases Single Layer Multi Layer How Many	%Solid %Pov %Other	
Is waste stream information  Itame of the Waste	%Solid %Pov %Other	
A. WASTE STREAM INFORMATION  Jame of the Waste	%Solid %Pov %Other 000 () >12.5 ()	wder
Original Process Generating Waste out of date products a representative sample provided? Yes No Is a MSDS attacts there any analytical attached? Yes No  GENERAL CHARACTERISTICS  Color Color/USS  Odor Ahereal Physical State @ 70 F   00 % Liquid % Sludge % Gas (Aerosol) % Gas (Other)  Phases Single Layer Multi Layer How Many Stu/Ib <3,000 3,000-5,000 \$ 5,000-10,000 \$ >10.0  OH NIA <2.0 2.0 to 4.0 4.0 to 10.0 10.0 to 12.5  iquid Flash Point <73 F \$ 73 to 99 F 100 to 139 F 140 to 200 F	%Solid %Pov %Other 000 () >12.5 ()	wder
In WASTE STREAM INFORMATION  Itame of the Waste	%Solid %Pov %Other 000 () >12.5 ()	wdei
waste stream information  ame of the Waste	%Solid %Pov %Other 000 () () >12.5 () (2) >200 F() None	wdel

E. OTHER WASTE STREAM INFORMATION						
Is this waste a "USED OIL" per 40CFR PART 279?	Yes 🔿	No <b>⊘</b>				
If "Yes", does the total halogen content exceed 1,000 ppm?	Yes 🔿	No O				
If "Yes", can you identify the "Chlorinated Constituent" present in the oil?	Yes O	No O				
If "Yes", can you rebut the presumption that this material is a "Hazardous Waste"	? Yes O	No O				
Does the Waste have any of the following characteristics? (Please select all that apply)						
Oxidizer Organic Peroxide OWater Reactive OAir Reactive OPyrophoric ODioxin						
Radioactive Onfectious OPathogen OCarcinogen OEtiological OAerosols						
Explosive Shock Sensitive OUndergo Hazardous Polymerization Ocylinder  Does the Waste contain any of the following?						
None or LESS THAN or ACTUAL None or	LESS THAN	or ACTUAL				
PCB'S	<50ppm ()	to a second second				
Cyanides (C) <50ppm ppm Phenolics (C)	<50ppm O	A CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONTROL OF THE STANDARD CONT				
Does the waste represented by this profile contain benzene?  Yes	_	>⊗				
If "Yes", please list concentration inppm.	,	· V				
Is the Waste subject to the benzene waste operations NESHAP? (40CFR Part 61,	Subpart FF)	Yes○ No Ø				
Answer "Yes" if your waste contains benzene and if the SIC code from your facilit	•					
	_	·				
2812 2813 2816 2819 2821 2822 2823 2824 2833 2834 2835 2836 2861 2865 2869 2873 2874 2876 2879 2891 2892 2893 2896 2899	_	2843 2844 2851 4953 4959 9511				
		_				
Is the Waste subject to RCRA Subpart CC controls? (40 CFR 265 SUBPART CC)		Yes O No O				
If "No", does the Waste meet the organic LDR exemption for UHC'S? (40 CFR 268 If "No", does the Waste contain <500ppmw volatile organic(VO)? (40 CFR 265 SI	•	Yes No No				
Does the Waste contain any Class I or Class II ozone-depleting substances?	-	Yes O No O				
If PCB'S are present, is the waste regulated by TSCA per 40 CFR 761?		Yes O No O				
in read are present, is the waste regulated by 130A per 40 Cit 701?						
r F. SHIPPING INFORMATION:		· · · · · · · · · · · · · · · · · · ·				
Method of Shipment						
Bulk Liquid(> 500 Gallons) Bulk Solids(roll-off box, vacuum box, etc)	La	b Pack				
· • • • • • • • • • • • • • • • • • • •		LI				
Cubic Yard Boxes Totes (Please specify size)  Drums (Select size) 35/55 gal Other (Please specify)	Product of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the s					
Shipping Frequency						
Number of Units 3 Month Quarter X Year	Other	!				
	-,.					
G. R.C.R.A. CHARACTERIZATION:						
Is this a USEPA "Hazardous Waste" per 40CFR 261.3?	If "No", Please	e skip to section H.				
Is this a "Universal Waste" per 40CFR part 273?						
Is this a "Characteristic Waste"? Yes ♥ No ◯						
If "Yes", is it: D001 Ignitable D002 Corrosive D00	3 Reactive					
Characteristic for Toxic Metals:		_				
O D004 O D005 O D006 O D007 O D008 O D00	09 \(\rightarrow\)	O D011				

G. R.C.R.A. CHARACT			Yes 🔿	No 🚫			
If "Yes". Please list all:	applicable c	ode(s) from 40CFR261	.31 and/or 261.				
If "Yes", Please list all applicable code(s) from 40CFR261.31 and/or 261.32:  Is this a commercial chemical product or spill cleanup that would carry a "U" or "P"							
waste code under 40CFR 261.33 (e) or (f)  Yes   No   No   No   No   No   No   No   N							
If "Yes" Please list all	annlicable v	vaste code(s):			an constant and constant		
Is this a state regulate	d waste?	vaste code(s) W	No O	er e i cara i retur Ator ann es .			
If "Yes", Please list all		•	120203	· L			
		STANCE C	1 70203	17		The second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of th	
H. DOT SHIPPING INF							
		on (USDOT) Hazardous			No 🔘		
		172.101 Hazardous Ma	aterials Table: 🧻	Dioxane			
"Reportable Quantity"	(if any)	100 lbs					
Hazard Class or Division	on No. 3	UN/NA # UN 1165	Packing G	roup []1	<b>X</b> II		
Is this a "Poison Inhala	ition Hazard	"? Yes <b>C</b>	) No <b>⊗</b>				
If "Yes", Please indicat			Zone B	Zone C	Zone D	Other	
List two primary hazar	dous consti	tuents: 1 DIOXAN	£ ;	2			
all known or suspecte	y. No deliber ed hazards h	rate or willful omissions ave been disclosed. I a bove and give PCI pern	s of composition also certify that t	n or properties the obtained s	exist and that ample is repr	it esentative	
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Peroxidizable Compounds Evaluation Form
Generator: 20 Ch System Address: 9145, 16th Street
Contact Name: John Porker Technical Contact: NA
Generator Phone Number 281-842-0286 Today's date: 7/21/09
Chemical Name: 14-Diox Oine Virgin or Spent Material: Virgin
Is the Material Inhibited *: YES NO If so with what: BHT % 25 ppm.
* An inhibitor is a chemical that would be added to the peroxide forming compound to help prevent the formation of peroxides.
Is there any evidence of crystallization, cloudiness, wisp like structures, ice like structures, or any solid masses visible (please describe).  **Documentation**  **Moterial 15 Crystal Clear**  **Comparison of the comparison of
Container information:
*Fill in all of the sections below. If there is no information listed for a question write the words "NONE"
Manufacturer: Ferro Corp. Lot Number: 54/172/ Catalog Number: N/A.
Did the Generator verify that the material has NEVER been opened: (VES) NO They have boun opened
Expiration Date of the material: Unknown Date the material was last opened: 7/17/09 (sample)
Size of the container: 55 goldrom Volume remaining in the container: 250 gol
Container type (metal, glass, plastic): Metal Cap type (metal, plastic, glass, lead, cork): Metal
Condition of the container (rusted, bulging, dented, visible holes): Cond (Some Sirtace Wift).
Storage Conditions:
Was the chemical subject to direct sunlight? YES NO
Has the chemical been subject to fluctuations in temperature and humidity (outdoor storage) fire,)? Please explain:
Background information:
Chemist Name (print): Date: NA Date: NA
Approved by Name (print): John Parker Signature: Joseph Date: 7/21/09



### MATERIAL SAFETY DATA SHEET

Ferro Corporation, Fine Chemicals Division **Baton Rouge Operation** 111 West Irene Road Zachary, LA 70791 USA



Emergency telephone number: CHEMTREC: 1-800-424-9300

Plant Number: 1-225-654-6801

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE **COMPANY/UNDERTAKING**

Product name:

Dioxane Bulk

Date of Preparation: 06/24/2003

**Chemical Family:** 

Cyclic ether

**Chemical Name:** 

1.4-Dioxane

Synonyms:

Diethylene ether. P-Dioxane. Diethylene dioxide.

CAS-No .:

123-91-1

Formula:

C4-H8-02

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Exposure limits

Components	CAS-No	Weight %	OSHA	ACGIH
Dioxane	123-91-1	100	100 ppm TWA	20 ppm TWA
		i	360 mg/m³ TWA	skin - potential for cutaneous
			prevent or reduce skin	absorption
		J	absorption	

### 3. HAZARDS IDENTIFICATION

### **Emergency Overview**

Danger

**NFPA** 704

Color:

Colorless

Health:

Physical state:

Fire:

2

Odor:

Liquid Ethereal

Instability:

3 1

DANGER FLAMMABLE! Vapors may travel to a source and flash back. Vapours may form explosive mixture with air. Probable reproductive hazard. May cause irritation of respiratory tract. May cause eye/skin irritation. May irritate digestive tract. May cause cancer.

### Potential health effects

Principle routes of exposure:

Skin contact, Eye contact, Inhalation.

Eye contact:

May cause eye irritation or burning...

Skin contact:

Prolonged skin contact may cause skin irritation and/or dermatitis. May be harmful if absorbed through skin.

Product name: Dioxane Bulk

Page 1 of 6

### Inhalation:

Breathing of mists, vapors, or fumes may irritate the nose, throat and lungs. Symptoms may include headache, excitation, euphoria, dizziness, incoordination, difficulty breathing, drowsiness, light-headedness, blurred vision, fatigue, stomach pain, nausea or vomiting, tremors, convulsions, loss of consciousness, cyanosis, central nervous system depression, coma, respiratory arrest and death, depending on the concentration and duration of exposure.

### Ingestion:

Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance. May cause headache, pain, salivation, dizziness, diarrhea, and nausea. May cause central nervous system depression or effects. Irritating to mouth, throat and stomach.

### **Chronic toxicity:**

1,4-Dioxane is an eye and mucous membrane irritant, primary skin irritant, central nervous system depressant, nephrotoxin, and hepatotoxin. Chronic inhalation exposure can produce damage to the liver, kidneys and blood. This product may cause teratogenic or mutagenic effects. Suspect cancer hazard.

**HMIS** 

Health: *2 Fire: 3

Physical hazard: 1

PPE: H

### 4. FIRST AID MEASURES

### Eye contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.

#### Skin contact:

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

### Inhalation:

Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Consult a physician.

### Ingestion:

Immediately give large quantities of water to drink. Induce vomiting if person is conscious. Call a physician immediately.

**Notes to physician:** Preplacement and periodic examinations should be directed to symptoms of headache and dizziness, as well as nausea and gastrointestinal disturbances. Note the condition of the skin, renal, and liver functions. In cases of high level acute exposures, check for B-hyroxyethylacetic, the major urinary metabolite.

### 5. FIRE-FIGHTING MEASURES

Flash point: 12 °C ( 54°F) Method: COC

Autoignition temperature (°C): 180

Flammable limits in air - lower (%): 2.00 % Flammable limits in air - upper (%): 22.20 %

### Suitable extinguishing media:

Use dry chemical, CO2, water spray or "alcohol" foam. Do not use a solid water stream as it may scatter and spread fire.

### Hazardous decomposition products:

Carbon oxides

Product name: Dioxane Bulk

Page 2 of 6

Special protective equipment for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, NIOSH (approved or equivalent) and full protective gear. Use water spray to cool adjacent structures and to protect personnel.

#### Unusual hazards:

Vapors are heavier than air and may spread along floors. Flash back possible over considerable distance.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Do not breathe vapours/dust. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. In the case of hazardous fumes, wear self contained breathing apparatus.

#### **Environmental precautions:**

Do not allow material to contaminate ground water system. Prevent product from entering drains.

#### Methods for cleaning up:

Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit.

## 7. HANDLING AND STORAGE

## Handling:

Do not breathe vapours or spray mist. Avoid contact with skin and eyes. Keep away from open flames, hot surfaces and sources of ignition. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Do not distill to dryness until peroxides are nonexistent or destroyed.

#### Storage:

Keep tightly closed in a dry, cool and well-ventilated place. Keep product and empty container away from heat and sources of ignition.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## Engineering measures:

Ensure adequate ventilation.. Ensure that eyewash stations and safety showers are proximal to the work-station location.

#### Respiratory protection:

Use NIOSH approved respirator when ventilation is inadequate.

## Hand protection:

Solvent-resistant gloves (butylrubber). Neoprene gloves.

#### Skin and body protection:

Lightweight protective clothing. Chemical resistant apron.

#### Eye protection:

Tightly fitting safety goggles.

#### **Exposure limits:**

See Section 2

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:

Liquid

Color:

Colorless

Product name: Dioxane Bulk

Page 3 of 6

Odor:

Ethereal

Odor threshold:

2.7 - 170 ppm

pH: Molecular weight:

No data available

Boiling point/range (°C): Freezing point/range (°C): 88.11 189 11.8

Specific gravity (Water =1): Vapor density (Air=1): Vapor pressure (mmHg): 1.040 3.00 27.0000

Evaporation rate (Water =1): Water solubility:

2.70 100

Partition coefficient (n-octanol/water):

0.42

VOC content (%):

No data available

Viscosity (cP):

1.3

## 10. STABILITY AND REACTIVITY

Stability:

Stable at normal conditions. If exposed to air, organic peroxides will develop.

Polymerization:

Will not occur.

Materials to avoid:

Incompatible with strong acids and oxidizing agents.. Strong acids and oxidizing

agents. Strong bases.

Conditions to avoid:

Keep away from open flames, hot surfaces and sources of ignition.

## 11. TOXICOLOGICAL INFORMATION

## **Acute toxicity**

## Eye irritation:

Contact with eyes may cause irritation or burning.

#### Skin irritation:

Chronic exposure causes drying effect on the skin and eczema.

## Carcinogenic effects:

Listed by IARC, NTP and OHSA as a carcinogen..

#### Mutagenic effects:

Animal experiments showed mutagenic and teratogenic effects.

## Target organ effects:

Nerves. Liver. Kidney.

### **Dioxane**

NIOSH - LD50s and LC50s:

- = 37 gm/m³/2H Inhalation LC50 Mouse
- = 46 gm/m³/2H Inhalation LC50 Rat
- = 5300 mg/kg Orai LD50 Mouse
- = 7120 mg/kg Oral LD50 Rat
- = 7600 uL/kg Dermal LD50 Rabbit

ACGIH - Carcinogens: A3 - Animal Carcinogen OSHA Possible Select Carcinogens: Present

IARC - Group 2B: Monograph 71, 1999; Supplement 7, 1987; Monograph 11, 1976

Product name: Dioxane Bulk

Page 4 of 6

## 12. ECOLOGICAL INFORMATION

#### Aquatic toxicity:

**Dioxane** 

Ecotoxicity - Fish Species Data:

= 9850 mg/L 96 Hr LC50 fathead minnow (flow-through)

> 10,000 mg/L 96 Hr LC50 bluegill sunfish (Static)

Ecotoxicity - Microtox Data:

= 610 mg/L 5 min EC50 Photobacterium phosphoreum = 668 mg/L 15 min EC50 Photobacterium phosphoreum

= 733 mg/L 30 min EC50 Photobacterium phosphoreum

Ecotoxicity - Water Flea Data:

= 163 mg/L 48 Hr EC50 water flea (Static)

Persistence and degradability:

Not inherently biodegradable.. BOD: 0%, 10 days.

## 13. DISPOSAL CONSIDERATIONS

## Waste from residues / unused products:

In accordance with local and national regulations. Where possible recycling is preferred to disposal or incineration.

## 14. TRANSPORT INFORMATION

DOT:

UN/ID No:

Proper shipping name:

U.S. DOT - Hazard Class:

Packing group: **ERG No:** 

DOT RQ (lbs):

Components Dioxane

RQ = 100 pounds (45.4 kg); also listed as 1,4-Diethylenedioxide

UN1165

Dioxane

3

Ш

127

TDG (Canada):

Proper shipping name:

Dioxane

Hazard class:

3 11

Packing group:

## 15. REGULATORY INFORMATION

## **U.S. Regulations:**

#### Not subject to TSCA 12(b) Export Notification

Dioxane (100)

**SARA 313 - 0.1 percent** 

## State Regulations

This product or its ingredients have been evaluated for New Jersey, Pennsylvania, and California Prop 65 supplier notification requirements. Substances that are subject to notification requirements, if any, are listed below.

**Dioxane** 

NJRTK: sn 0789

Product name: Dioxane Bulk

Page 5 of 6

PARTK: environmental hazard; special hazardous substance Cal Prop65 - Cancer: carcinogen; initial date 1/1/88

#### Canada

WHMIS hazard class: B2 Flammable liquid. D2A Very toxic materials .

Components

WHMIS: Ingredient Disclosure:

Dioxane

0.1%; English Item 655; French Item 767

#### International Inventories

TSCA 8(b): All the ingredients are on the TSCA list.

DSL: All the ingredients are on the DSL.

EINECS: All the ingredients are on the EINECS list.

PICCS: Listed. ENCS: Listed. KECL: Listed. CHINA: Listed. AICS: Listed.

## 16. OTHER INFORMATION

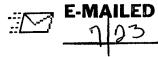
## Prepared by:

Ferro Technical Center

The information and recommendations contained in this Material Safety Data Sheet have been compiled from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the MSDS was prepared. No warranty, guaranty or representation is made as to the correctness or sufficiency of the information. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine its environmental regulatory compliance obligations under any applicable federal or state laws.

**End of Safety Data Sheet** 

Product name: Dioxane Bulk



07/22/2009 14:34

# PCI

# GENERATOR'S WASTE PROFILE SHEET



COMPLETE - PRINT - SIGN - FAX (219) 397-6411

Generator Name Zach Systems		
	Z TX Zip	77571
Customer Name Joy Baker		
Customer Phone 713-676-1460 Customer FAX 713-676-1676		
Generator USEPA/Federal ID# TXR000079062		
Is the Generator a "Conditionally Exempt Small Quantity Generator"? Yes (X) No		
Generator's S.I.C. Code (4 Digit)		
BILLING INFORMATION (Check HERE if billing information is the same as above informat	tion)	
Billing Name Ces Environmental Sucs. Inc.		
	Ζip	77021
Billing Contact Name Joy Baker	wayaa aa waa ahaa haa ahaa haa ahaa ah	Promotor surfaces and other Promotor of States
Billing Phone 713-676-1460 Billing FAX 713-676-1676		
PCI Sales Rep. Dan Bowman		
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r E. OTHER WASTE STREAM INFORMATION ————————————————————————————————————	
Is this waste a "USED OIL" per 40CFR PART 279?	Yes 🔘 No 🐼
If "Yes", does the total halogen content exceed 1,000 ppm?	Yes O No O
If "Yes", can you identify the "Chlorinated Constituent" present in the oil?	Yes O No O
If "Yes", can you rebut the presumption that this material is a "Hazardous Waste"?	Yes No No
Does the Waste have any of the following characteristics? (Please select all that a	pply)
Oxidizer Organic Peroxide OWater Reactive Air Reactive Radioactive Infectious OPathogen OCarcinogen OExplosive OShock Sensitive OUndergo Hazardous Polymerization Does the Waste contain any of the following?	O Pyrophoric ODioxin O Etiological OAerosols O Cylinder
<u> </u>	LESS THAN or ACTUAL
PCB'S	<50ppm O ppm
Cyanides	<50ppm O ppm
Does the waste represented by this profile contain benzene?  Yes	No 🔕
If "Yes", please list concentration inppm.	(
Is the Waste subject to the benzene waste operations NESHAP? (40CFR Part 61, S	Subpart FF) Yes No 🐼
Answer "Yes" if your waste contains benzene and if the SIC code from your facility	,
2812 2813 2816 2819 2821 2822 2823 2824 2833 2834 2835 2836	2841 2842 2843 2844 2851
2861 2865 2869 2873 2874 2876 2879 2891 2892 2893 2896 2899	2911 3312 4953 4959 9511
Is the Waste subject to RCRA Subpart CC controls? (40 CFR 265 SUBPART CC)  If "No", does the Waste meet the organic LDR exemption for UHC'S? (40 CFR 268.4  If "No", does the Waste contain <500ppmw volatile organic(VO)? (40 CFR 265 SU Does the Waste contain any Class I ozone-depleting substances?  If PCB'S are present, is the waste regulated by TSCA per 40 CFR 761?	
F. SHIPPING INFORMATION:  Method of Shipment  Bulk Liquid(> 500 Gallons) Bulk Solids(roll-off box, vacuum box, etc)  Cubic Yard Boxes Totes (Please specify size)  Drums (Select size) 55 yal Other (Please specify)  Shipping Frequency One time annual  Number of Units Month Quarter Year 1-3	Lab Pack Other
C. D.C.D.A. CHADACTEDIZATION.	
Is this a "Universal Waste" per 40CFR part 273?  Is this a "Characteristic Waste"?  Yes No O	If "No", Please skip to section H. B Reactive
O D004 O D005 O D006 O D007 O D008 O D00	9 <b>O</b> D010 <b>O</b> D011

Is this an "F" or "K" List		(Cont.) ————————————————————————————————————	Yes 🔿	No 🚫		
		ode(s) from 40CFR261.3	•			Processing and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of t
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## SIGMA-ALDRICH

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## **Material Safety Data Sheet**

Version 3.0 Revision Date 07/13/2007 Print Date 03/17/2008

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name

Styrene

**Product Number** 

240869

Brand

: Aldrich

Company

: Sigma-Aldrich

3050 Spruce Street

SAINT LOUIS MO 63103

USA

Telephone

: +1 800-325-5832

Fax

: +1 800-325-5052

Emergency Phone #

: (314) 776-6555

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Formula

: C8H8

Molecular Weight

: 104.15 g/mol

CAS-No.	EC-No.	Index-No.	Concentration [%]
Styrene			
100-42-5	202-851-5	601-026-00-0	

#### 3. HAZARDS IDENTIFICATION

#### **Emergency Overview**

#### **OSHA Hazards**

Flammable Liquid

Irritant

Carcinogen

#### **Target Organs**

Central nervous system, Blood, Lymphatic system., Endocrine system.

#### **HMIS Classification**

Health Hazard: 2

Chronic Health Hazard: *

Flammability: 3

Physical hazards: 0

## **NFPA Rating**

Health Hazard: 2

Fire: 3

Reactivity Hazard: 0
Potential Health Effects

## Inhalation

May be harmful if inhaled. May cause respiratory tract irritation.

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Page 1 of 7

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Skin

May be harmful if absorbed through skin. May cause skin irritation.

Eyes

May cause eye irritation.

Ingestion

May be harmful if swallowed.

#### 4. FIRST AID MEASURES

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If preathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 5. FIRE-FIGHTING MEASURES

#### Flammable properties

Flash point

32.0 °C (89.6 °F) - closed cup

Ignition temperature

480 °C (896 °F)

## Suitable extinguishing media

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

#### Specific hazards

Container explosion may occur under fire conditions. Vapours may form explosive mixture with air.

#### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### **Further information**

Use water spray to cool unopened containers.

## 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

#### **Environmental precautions**

Do not let product enter drains.

## Methods for cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

#### 7. HANDLING AND STORAGE

#### Handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

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Page 2 of 7

## Storage

Keep container tightly closed in a dry and well-ventilated place. Store in cool place.

Light sensitive.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis
Styrene	100-42-5	TWA	20 ppm 85 mg/m3	1997-05-21	US. American Conference of Governmental and Industrial Hygienists Threshold Limit Values for Chemical Substances in th Work Environment; Annual Reports for the Year 2004:Committees on Threshold Limit Values (TLVs ) and Biological Exposure Indices (BEIs)
		STEL	40 ppm 170 mg/m3	1997-05-21	US. American Conference of Governmental and Industrial Hygienists Threshold Limit Values for Chemical Substances in th Work Environment; Annual Reports for the Year 2004:Committees on Threshold Limit Values (TLVs) and Biological Exposure Indices (BEIs)
		TWA	50 ppm 215 mg/m3	1989-03-01	US. Department of Labor - Occupational Safety and Health Administration (OSHA) 29 CFR 1910.1000 Z-1-A
Remarks	See Table Z	<u>-2.</u>		<del></del>	
		STEL	100 ppm 425 mg/m3	1989-03-01	US. Department of Labor - Occupational Safety and Health Administration (OSHA) 29 CFR 1910.1000 Z-1-A
	See Table Z				
		TWA	100 ppm	1993-06-30	US. Department of Labor - Occupational Safety and Health Administration; (OSHA) Standards, Toxic and Hazardous Substances, Subpart Z 29 CFR Part 1910.1000, Table Z-2
	(Z37.15-196	9)			
		CEIL	200 ppm	1993-06-30	US. Department of Labor -

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Page 3 of 7

				Occupational Safety and Health Administration; (OSHA) Standards, Toxic and Hazardous Substances, Subpart Z 29 CFR Part 1910.1000, Table Z-2
 (Z37.15-19	69)			
	AMP	600 ppm	1993-06-30	US. Department of Labor - Occupational Safety and Health Administration; (OSHA) Standards, Toxic and Hazardous Substances, Subpart Z 29 CFR Part 1910.1000, Table Z-2

#### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Hand protection

Handle with gloves.

#### Eye protection

Safety glasses

## Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## **Appearance**

Form

liquid, clear

Colour

colourless

Safety data

рΗ

no data available

Melting point

-31.0 °C (-23.8 °F)

Boiling point

145.0 - 146.0 °C (293.0 - 294.8 °F)

Flash point

32.0 °C (89.6 °F) - closed cup

Ignition temperature

480 °C (896 °F)

Lower explosion limit

1.1 %(V)

Upper explosion limit

8.9 %(V)

Vapour pressure

16.5 hPa (12.4 mmHg) at 37.7 °C (99.9 °F)

5.7 hPa (4.3 mmHg) at 15.0 °C (59.0 °F)

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Page 4 of 7

Density

0.91 g/cm3

Water solubility

insoluble

#### 10. STABILITY AND REACTIVITY

#### Storage stability

Stable under recommended storage conditions.

#### Conditions to avoid

Heat, flames and sparks.

May polymerize on exposure to light.

#### Materials to avoid

Oxidizing agents, Copper

#### **Hazardous reactions**

Vapours may form explosive mixture with air.

#### 11. TOXICOLOGICAL INFORMATION

#### **Acute toxicity**

LD50 Oral - rat - 2,650 mg/kg

Remarks: Behavioral:Somnolence (general depressed activity). Liver:Other changes.

LC50 Inhalation - rat - 4 h - 12,000 mg/m3

#### Irritation and corrosion

Skin - rabbit - Skin irritation

Eyes - rabbit - Eye irritation - 24 h

#### Sensitisation

no data available

## Chronic exposure

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Laboratory experiments have shown mutagenic effects.

#### Signs and Symptoms of Exposure

Dermatitis, Central nervous system depression, Nausea, Dizziness, Headache

#### Potential Health Effects

Inhalation

May be harmful if inhaled. May cause respiratory tract irritation. May be harmful if absorbed through skin. May cause skin irritation.

Skin Eyes

May cause eye irritation.

Ingestion

May be harmful if swallowed.

**Target Organs** 

Central nervous system, Blood, Lymphatic system., Endocrine system.,

## 12. ECOLOGICAL INFORMATION

## Elimination information (persistence and degradability)

Biodegradability

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Page 5 of 7

#### **Ecotoxicity effects**

Toxicity to fish

LC50 - Leuciscus idus (Golden orfe) - 17.00 - 66.00 mg/l - 48 h

NOEC - Pimephales promelas (fathead minnow) - 4 mg/l - 96 h LC50 - Pimephales promelas (fathead minnow) - 4.08 mg/l - 96 h

LOEC - Pimephales promelas (fathead minnow) - 7.6 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates.

EC50 - Daphnia magna (Water flea) - 182.00 mg/l - 24 h

NOEC - Daphnia magna (Water flea) - 1.9 mg/l - 48 h

LOEC - Daphnia magna (Water flea) - 3.3 mg/l - 48 h

EC50 - Daphnia magna (Water flea) - 4.7 mg/l - 48 h

## Further information on ecology

no data available

#### 13. DISPOSAL CONSIDERATIONS

#### **Product**

Contact a licensed professional waste disposal service to dispose of this material. This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

#### Contaminated packaging

Dispose of as unused product.

#### 14. TRANSPORT INFORMATION

DOT (US)

UN-Number: 2055 Class: 3

Packing group: III

Proper shipping name: Styrene monomer, stabilized

**IMDG** 

UN-Number: 2055 Class: 3

Packing group: III

EMS-No: F-E, S-D

Proper shipping name: STYRENE MONOMER, STABILIZED

Marine pollutant: No

**IATA** 

UN-Number: 2055 Class: 3

Packing group: III

Proper shipping name: Styrene monomer, stabilized

#### 15. REGULATORY INFORMATION

## **OSHA Hazards**

Flammable Liquid, Irritant, Carcinogen

#### **TSCA Status**

On TSCA Inventory

## **DSL Status**

All components of this product are on the Canadian DSL list.

#### **SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## **SARA 313 Components**

Styrene

Aldrich - 240869

CAS-No.

Revision Date

100-42-5

1987-01-01

Sigma-Aldrich Corporation

www.sigma-aldrich.com

Page 6 of 7

#### SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

## **Massachusetts Right To Know Components**

	CAS-No.	Revision Date
Styrene	100-42-5	1987-01-01
Pennsylvania Right To Know Components		
	CAS-No.	Revision Date
Styrene	100-42-5	1987-01-01
New Jersey Right To Know Components		
	CARNO	Pavisian Data

## Ne

Revision Date CAS-No. Styrene 100-42-5 1987-01-01

## California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

## 16. OTHER INFORMATION

#### **Further information**

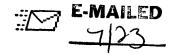
Copyright 2007 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only., The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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Page 7 of 7

Aldrich - 240869



07/22/2009 14:33

# PCI

# GENERATOR'S WASTE PROFILE SHEET



COMPLETE - PRINT - SIGN - FAX (219) 397-6411

A. GENERATOR INFORMATION ————————————————————————————————————	
Generator Name Zach Systems	and the second second
Facility Address 914 South 16th St. City La Porte State TX Zip.	77571
Customer Name Tox Be key	
Customer Phone 713-676-1460 Customer FAX 713-676-1676	
Generator USEPA/Federal ID# TXRO00079062	•
Is the Generator a "Conditionally Exempt Small Quantity Generator"? Yes (X) No	
Generator's S.I.C. Code (4 Digit)	
BILLING INFORMATION (Check HERE if billing information is the same as above information)	
Billing Name Ces Environmental Sucs, Inc.	
Billing Address 4904 Gri665 RD. City Houston State TX Zip	77071
Rilling Contact Name 'T C )	and the second
Billing Phone 713-676-1460 Billing FAX 713-676-1676	
PCI Sales Rep. Dan Bowman	
Is a representative sample provided? Yes No Is a MSDS attached? Yes No No	No
C. GENERAL CHARACTERISTICS	
color clear Odor fishy	
Physical State @ 70 F \ O O %Liquid %Sludge %Solid	%Powder
. %Gas (Aerosol) %Gas (Other) %Other	
Phases Single Layer 🚫 Multi Layer 🔿 How Many	
Btu/lb <3,000 3,000-5,000 5,000-10,000 >10,000 O	
PH <2.0 O 2.0 to 4.0 O 4.0 to 10.0 O 10.0 to 12.5 O >12.5 🛇	_
Liquid Flash Point <73 F ○ 73 to 99 F ○ 100 to 139 F ○ 140 to 200 F ○ >200 F ◎	None 🔘
Specific Gravity .9(-) % Total Halogens O	
D. CHEMICAL COMPOSITION (Total of Maximum concentration must > or = to 100%)	1404
Constituents Min% Max% Constituents Min%	Max%
Dicyclohexylamine 0 - 100%	

E. OTHER WASTE STREAM INFORMATION ——————		
Is this waste a "USED OIL" per 40CFR PART 279?	Yes 🔿	No <b>⊗</b>
If "Yes", does the total halogen content exceed 1,000 ppm?	Yes O	No O
If "Yes", can you identify the "Chlorinated Constituent" present i		No O
If "Yes", can you rebut the presumption that this material is a "H	_	No O
Does the Waste have any of the following characteristics? (Plea		O
Oxidizer Organic Peroxide OWater Reactive	O Air Reactive O Pyropho	oric ODioxin
Radioactive O Infectious O Pathogen	© Carcinogen	
Explosive O Shock Sensitive OUndergo Hazardou	s Polymerization O Cylinder	•
Does the Waste contain any of the following?  None or LESS THAN or ACTUAL	None or LESS THAN	or ACTUAL
PCB'S S <50ppm ppm	Sulfidor Co.	or ACTUAL
Cyanides C <50ppm ppm		ppm
Does the waste represented by this profile contain benzene?		ppm
16 MV - N - F P-A	Yes O No	<b>%</b>
Is the Waste subject to the benzene waste operations NESHAP?	(ANCED Part 61 Subpart CC) V	'es ○ No �
Answer "Yes" if your waste contains benzene and if the SIC code		-
		J
2812 2813 2816 2819 2821 2822 2823 2824 2833 283		2843 2844 2851
2861 2865 2869 2873 2874 2876 2879 2891 2892 289	3 2896 2899 2911 3312 4	953 4959 9511
Is the Waste subject to RCRA Subpart CC controls? (40 CFR 265	•	es 🔘 No 🗭
If "No", does the Waste meet the organic LDR exemption for UH	•	es⊗ No O
If "No", does the Waste contain <500ppmw volatile organic(VO)		es 🚷 No 🔘
Does the Waste contain any Class I or Class II ozone-depleting si		es O No 🐼
If PCB'S are present, is the waste regulated by TSCA per 40 CFR	61? Y	es O No 🛇
F. SHIPPING INFORMATION:		
Method of Shipment		
Bulk Liquid(> 500 Gallons) Bulk Solids(roll-off box, vo	culum box atcl	Pack
Cubic Yard Boxes Totes (Please	coolin size)	Track
Drums (Select size) 55 and Other (Please specify)	specify size)	
	Year 1.7 Other	
Number of Units Month Quarter	Year 1-3 Other	
r G. R.C.R.A. CHARACTERIZATION:		
Is this a USEPA "Hazardous Waste" per 40CFR 261.3? Yes	No O If "No", Please	skip to section H.
Is this a "Universal Waste" per 40CFR part 273?  Yes		•
Is this a "Characteristic Waste"?  Yes	<u> </u>	!
If "Yes", is it: D001 Ignitable D002 Corrosive	D003 Reactive	1
Characteristic for Toxic Metals:	<del></del>	
1	0008 OD009 OD010	OD011
		-

G. R.C.R.A. CHARACTERIZATION: ls this an "F" or "K" Listed waste o	•	Yes () No	 DØ		
			<b>W</b>	• • • • • • • • • • • • • • • • • • • •	
If "Yes". Please list all applicable of	• '				
Is this a commercial chemical produced and accommercial chemical produced and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation and accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation accommendation acc		-	or "P"		
waste code under 40CFR 261.33	(e) or (f) Yes O	No <b>⊗</b>		we a second of	in an are in the sq
Is this a state regulated waste?	Ves (2) No (	· · · · · · · · · · · · · · · · · · ·	, and a		M 4701 1 120 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
If "Yes", Please list all applicable vis this a state regulated waste?  If "Yes", Please list all codes.	012220314	<b>,</b> 	*** ** ***		
L	V ( P =	the trivial of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of t			فأدروها المربيدات الساالية
H. DOT SHIPPING INFORMATION:			0		
Is this a U.S. Dept. of Transportation			Yes 🚷		
Proper Shipping Name per 49CFR	CONTRACTOR OF THE SECTION	s lable: Dicy	wone	xyiamine	
"Reportable Quantity" (if any)		·	С¬.	· —.	[ <del>5</del> 2]
Hazard Class or Division No. 8			<u> </u>		XIII
Is this a "Poison Inhalation Hazard		No 🛇			
If "Yes", Please indicate Hazard Zo		one B Zo	one C	Zone D	Other
List two primary hazardous consti	ituents: 1 Dicyclohexy	lamine 2		energy of the second second	
I. GENERATOR CERTIFICATION: — I hereby certify that the above an knowledge and ability. No delibe all known or suspected hazards hof the waste material described a	erate or willful omissions of co nave been disclosed. I also co	omposition or p ertify that the ol	roperties otained s	exist and that ample is repres	
Name Range Smith	and the second superior and the second superior and the second superior and the second superior and the second	Title &	THE M.	eNAGER_	
Signature Roull Sand				Date 7-21-0	19
TIME CDACE	Submit Clea	energe and a state of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the seco	New	MT USE -	
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Date Received APPRO	OVER'S INITIALS	PROFILE	NUMBER	1	
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PROPER WASTE CODES					
PROPER D.O.T. SHIPPING NAME					
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HAZARD CLASS UN N.O.S DESCRIPTIONS	na Packing Gr	OUP	1	li	ıa
	NA PACKING GR	OUP	1	li	I(I
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## Material Safety Data Sheet

Version 1.9 Revision Date 03/07/2005 MSDS Number 30000008277 Print Date 07/13/2008

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name

: Dicyclohexylamine

**Product Use Description** 

: Chemical intermediate.

Company

: Air Products and Chemicals,Inc

7201 Hamilton Blvd.

Allentown, PA 18195-1501

Telephone

1-800-345-3148 Chemicals

1-800-752-1597 Gases and Electronic Chemicals

Emergency telephone number

800-523-9374 USA

01-610-481-7711 International

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Concentration (Weight)
Dicyclohexylamine	101-83-7	100 %

CHEMICAL FAMILY: Alicyclic Amine.

## 3. HAZARDS IDENTIFICATION

#### **Emergency Overview**

Toxic if swallowed.

Corrosive.

Severe respiratory irritant.

Severe skin irritant.

Severe eve irritant.

Toxic in contact with skin.

## Potential Health Effects

Inhalation

: Harmful if inhaled and may cause delayed lung injury. Delayed adverse effects possible. Inhalation of aerosol may cause irritation to the upper respiratory tract. Risk of serious damage to the lungs (by inhalation). May cause nose, throat, and lung irritation. Can cause severe eye, skin and respiratory tract burns. Inhalation of vapors and/or aerosols in high concentration may cause irritation of respiratory system.

Eye contact

Product vapor in low concentrations can cause lacrimation, conjunctivitis and corneal edema when absorbed into the tissue of the eye from the atmosphere. Corneal edema can cause the perception of "blue haze" or "fog" around lights, although this is a temporary effect and has no known residual effect. Causes

eye burns. May cause blindness. Severe eye irritation.

Skin contact

: Causes skin burns. Toxic in contact with skin.

1/7

Air Products and Chemicals,Inc

Version 1.9 Revision Date 03/07/2005 MSDS Number 300000008277 Print Date 07/13/2008

Ingestion

: May be fatal if swallowed. Toxic if swallowed. If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the

stomach.

Chronic Health Hazard

This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater. Prolonged contact may result in chemical burns and permanent damage.

## **Exposure Guidelines**

**Target Organs** 

Respiratory system.

Skin. Eves.

Symptoms

: Repeated and/or prolonged exposure to low concentrations of vapors and/or

aerosols may cause: Sore throat.

#### Aggravated Medical Condition

Asthma. Adverse respiratory effects (such as cough, tightness of chest or shortness of breath). Eye disease Skin disorders and Allergies. Adverse skin effects (such as rash, irritation or corrosion). Adverse eye effects (such as conjunctivitis or corneal damage).

## 4. FIRST AID MEASURES

General advice

: Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.

Eye contact

Rinse immediately with plenty of water also under the eyelids for at least 20 minutes. Remove contact lenses.

Skin contact

Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay. Wash off immediately with plenty of water for at least 20 minutes. Cover wound with sterile dressing.

Ingestion

: If a person vomits when lying on his back, place him in the recovery position. Prevent aspiration of vomit. Turn victim's head to the side.

Inhalation

If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately. Move to fresh air.

## 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Alcohol-resistant foam. Carbon dioxide (CO2).

Dry chemical. Dry sand.

Limestone powder.

2/7

Air Products and Chemicals,Inc

Version 1.9 Revision Date 03/07/2005 MSDS Number 30000008277 Print Date 07/13/2008

Specific hazards

: May generate ammonia gas. May generate toxic nitrogen oxide gases. Use of water may result in the formation of very toxic aqueous solutions. Do not allow run-off from fire fighting to enter drains or water courses. Incomplete combustion may form carbon monoxide. Downwind personnel must be evacuated. Burning produces obnoxious and toxic fumes.

Special protective equipment

for fire-fighters

: Avoid contact with the skin. A face shield should be worn. Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if

necessary.

Further information

: Do not allow run-off from fire fighting to enter drains or water courses.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions

: Use self-contained breathing apparatus and chemically protective clothing. Wear suitable protective clothing, gloves and eye/face protection. Evacuate personnel to safe areas.

Environmental precautions

: Construct a dike to prevent spreading.

Methods for cleaning up

Approach suspected leak areas with caution. Contact Air Products' Emergency Response Center for advice. Place in appropriate chemical waste container.

Additional advice

: Open enclosed spaces to outside atmosphere. If possible, stop flow of product.

#### 7. HANDLING AND STORAGE

## Handling

Do not use sodium nitrite or other nitrosating agents in formulations containing this product. Suspected cancercausing nitrosamines could be formed. Avoid contact with skin and eyes. Use only in well-ventilated areas. Avoid breathing vapors and/or aerosols. Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. Avoid contact with eyes. Use personal protective equipment. When using, do not eat, drink or smoke.

#### Storage

Store in steel containers preferably located outdoors, above ground, and surrounded by dikes to contain spills or leaks. Do not store near acids. Keep containers tightly closed in a dry, cool and well-ventilated place.

## Technical measures/Precautions

Do not store in reactive metal containers.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## Engineering measures

Provide readily accessible eye wash stations and safety showers.

Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.

#### Personal protective equipment

3/7

Air Products and Chemicals,Inc

Version 1.9 Revision Date 03/07/2005 MSDS Number 300000008277 Print Date 07/13/2008

Respiratory protection

: Wear appropriate respirator when ventilation is inadequate.

Hand protection

Neoprene gloves. Butyl-rubber Nitrile rubber. Impervious gloves.

The breakthrough time of the selected glove(s) must be greater than the

intended use period.

Eye protection

: Full face shield with goggles underneath. Chemical resistant goggles must be worn.

Skin and body protection

: Impervious clothing. Full rubber suit (rain gear).

Rubber or plastic boots.

Long sleeve shirts and trousers without cuffs.

Slicker Suit.

Environmental exposure

controls

: Construct a dike to prevent spreading.

Special instructions for protection and hygiene

: Discard contaminated leather articles. Remove contaminated clothing. Drench affected area with water for at least 15 minutes Provide readily accessible eye wash stations and safety showers. Wash at the end of each workshift and

before eating, smoking or using the toilet.

## Exposure limit(s)

Aniline	Time Weighted Average (TWA): ACGIH	2 ppm	-
Aniline	PEL: OSHA Z1	5 ppm	19 mg/m3

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form

: Liquid.

Color

: Colorless.

Odor

: Fishy.

Relative density

: 0.91 (water = 1)

Vapor pressure

: < 12.00 mmHg at 70 F (21 ℃)

Density

: 56.809 lb/ft3 (0.91 g/cm3) at 70 % (21 %)

рН

: > 12.5

Boiling point/range

: 493 °F (256 °C)

Flash point

: 103.89 ℃

4/7

Air Products and Chemicals, Inc

Version 1.9 Revision Date 03/07/2005 MSDS Number 300000008277 Print Date 07/13/2008

Water solubility

Slightly soluble.

## 10. STABILITY AND REACTIVITY

Stability

: Stable under normal conditions.

Materials to avoid

: Sodium hypochlorite.

Organic acids (i.e. acetic acid, citric acid etc.).

Mineral acids.

Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide

possibly creating an explosion.

CAUTION! N-Nitrosamines, many of which are known to be potent

carcinogens, may be formed when the product comes in contact with nitrous

acid, nitrites or atmospheres with high nitrous oxide concentrations. Nitrous acid and other nitrosating agents.

Oxidizing agents.

Hazardous decomposition

products

Nitric acid. Ammonia.

Nitrogen oxides (NOx).

Nitrogen oxide can react with water vapors to form corrosive nitric acid.

Carbon monoxide. Carbon dioxide (CO2).

Nitrosamine.

## 11. TOXICOLOGICAL INFORMATION

#### Acute Health Hazard

Ingestion

: LD50: 373 mg/kg

Species : Rat.

Inhalation

: No data is available on the product itself.

Skin.

: LD50 : > 200 mg/kg Species : Rabbit. Method : Estimated.

Eye irritation/corrosion

: Severe eye irritation.

Acute dermal irritation/corrosion

: Severe skin irritation.

## 12. ECOLOGICAL INFORMATION

5/7

Air Products and Chemicals, Inc

Version 1.9 Revision Date 03/07/2005 MSDS Number 30000008277 Print Date 07/13/2008

**Ecotoxicity effects** 

Aquatic toxicity

: No data is available on the product itself.

Toxicity to other organisms

: No data available.

Persistence and degradability

Mobility

: No data available.

Bioaccumulation

: No data is available on the product itself.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused

products

: corrosive, hazardous waste number D002

Contact supplier if guidance is

required.

Contaminated packaging

: Dispose of container and unused contents in accordance with federal, state,

and local requirements.

14. TRANSPORT INFORMATION

**CFR** 

Proper shipping name

: Dicyclohexylamine

Class

UN/ID No.

: UN2565

Packing group

: 111

IATA

Proper shipping name

: Dicyclohexylamine

Class UN/ID No. : 8

: UN2565

Packing group

: 111

**IMDG** 

Proper shipping name

: DICYCLOHEXYLAMINE

Class

UN/ID No.

UN2565

Packing group

: 111

CTC

Proper shipping name

: DICYCLOHEXYLAMINE

Class

: 8

UN2565

UN/ID No. Packing group

111

15. REGULATORY INFORMATION

6/7

Air Products and Chemicals,Inc

Version 1.9 Revision Date 03/07/2005 OSHA Hazard Communication Standard (29 CFR 1910.1200) Hazard Class(es) Corrosive. Toxic

Country	Regulatory list	Notification
USA	TSCA	Included on Inventory.
EU	EINECS	Included on EINECS inventory or polymer substance, monomers included on EINECS inventory or no longer polymer.
Canada	DSL	Included on Inventory.
Australia	AICS	Included on Inventory.
Japan	ENCS	Included on Inventory.
South Korea	ECL	Included on Inventory.
China	SEPA	Included on Inventory.
Philippines	PICCS	Included on Inventory.

EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification: Acute Health Hazard

EPA SARA Title III Section 313 (40 CFR 372) Component(s) above 'de minimus' level: None.

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)
WARNING! This product contains a chemical known in the State of California to cause cancer.
Aniline

WHMIS Hazard Classification

Toxic Material Causing Immediate and Serious Toxic Effects, Corrosive Material

## 16. OTHER INFORMATION

## **HMIS Rating**

Health : 3
Flammability : 1
Physical hazard : 0

Prepared by

: Air Products and Chemicals, Inc. Global EH&S Product Safety Department

For additional information, please visit our Product Stewardship web site at

http://www.airproducts.com/productstewardship/

7/23

07/22/2009 14:33

# PCI

# GENERATOR'S WASTE PROFILE SHEET



COMPLETE - PRINT - SIGN - FAX (219) 397-6411

Generator Name Zach System Corp.	
Facility Address 914 South 16th St. City La Porte State TX Zip 775	71
Customer Name Ronald Smith	
Customer Phone 281-842-0201 Customer FAX 281-867-1734	
Generator USEPA/Federal ID# TXR000079062	
Is the Generator a "Conditionally Exempt Small Quantity Generator"? Yes X No	
Generator's S.I.C. Code (4 Digit)	
- Commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of the commence of	
BILLING INFORMATION (Check HERE if billing information is the same as above information)	
Billing Name	
Billing Address City State Zip	
Billing Contact Name	
Billing Phone Billing FAX	
PCI Sales Rep.	
Is a representative sample provided?  Yes No Is a MSDS attached?  Yes No	<b>o</b>
C. GENERAL CHARACTERISTICS	
C. GENERAL CHARACTERISTICS  Color Clear  Odor aromatic	
color clear Odor aromatic	
Color Clear Odor aromatic  Physical State @ 70 F 100 %Liquid %Sludge %Solid %Power	
Color Clear Odor aromatic  Physical State @ 70 F 100 %Liquid %Sludge %Solid %Pown  **Gas (Aerosol) %Gas (Other) %Other	
Color Clear Odor aromatic  Physical State @ 70 F 100 %Liquid %Sludge %Solid %Power	
Color Clear         Odor aromatic           Physical State @ 70 F         100         %Liquid         %Sludge         %Solid         %Pown           %Gas (Aerosol)         %Gas (Other)         %Other           Phases         Single Layer         Multi Layer         How Many           8tu/lb         <3,000	der
Color CleAY Odor Aromatic  Physical State @ 70 F   OD %Liquid %Sludge %Solid %Power  **Gas (Aerosol) %Gas (Other) %Other  Phases Single Layer	der
Color C   ∠AY         Odor Aromatic           Physical State @ 70 F   OD %Liquid %Sludge %Solid %Power %Gas (Aerosol) %Gas (Other) %Other           Phases Single Layer	der
Color Clear Odor aromatic  Physical State @ 70 F   DD %Liquid %Sludge %Solid %Pown	der
Color C   ∠AY         Odor Aromatic           Physical State @ 70 F   DD %Liquid %Sludge %Solid %Pown %Gas (Aerosol) %Gas (Other) %Other           Phases Single Layer	der
Color C   ← AY         Odor Arumatic           Physical State @ 70 F   OD %Liquid %Sludge %Solid %Pown %Gas (Aerosol) %Gas (Other) %Other           Phases Single Layer	der

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E. OTHER WASTE STREAM INFORMATION ————————————————————————————————————	•	
Is this waste a "USED OIL" per 40CFR PART 279?	Yes 🔿	No 🔇
If "Yes", does the total halogen content exceed 1,000 ppm?	Yes 🔿	No 🕜
If "Yes", can you identify the "Chlorinated Constituent" present in the oil?	Yes O	No O
If "Yes", can you rebut the presumption that this material is a "Hazardous Waste"	? Yes 🔿	No O
Does the Waste have any of the following characteristics? (Please select all that a	apply)	
Oxidizer Organic Peroxide Water Reactive Air Reactive Radioactive Infectious Pathogen Ocarcinogen Explosive Shock Sensitive Undergo Hazardous Polymerization Does the Waste contain any of the following?	O Pyrophor O Etiologica O Cylinder	-
None or LESS THAN or ACTUAL None or	LESS THAN	or ACTUAL
PCB'S	<50ppm 🔘	ppm
Cyanides S <50ppm ppm Phenolics S	<50ppm 🔘	ppm
Does the waste represented by this profile contain benzene? Yes	) No (	0
If "Yes", please list concentration inppm.		
Is the Waste subject to the benzene waste operations NESHAP? (40CFR Part 61,	•	_
Answer "Yes" if your waste contains benzene and if the SIC code from your facilit	y is one of the f	following:
		343 2844 2851 953 4959 9511
Is the Waste subject to RCRA Subpart CC controls? (40 CFR 265 SUBPART CC)  If "No", does the Waste meet the organic LDR exemption for UHC'S? (40 CFR 268.		es O No O es O No O
If "No", does the Waste contain <500ppmw volatile organic(VO)? (40 CFR 265 SL	•	esO NoO
Does the Waste contain any Class I or Class II ozone-depleting substances?	_	es O No Ø
If PCB'S are present, is the waste regulated by TSCA per 40 CFR 761?		es O No ⊗
The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon		
r F. SHIPPING INFORMATION:		
Method of Shipment		
Bulk Liquid(> 500 Gallons) Bulk Solids(roll-off box, vacuum box, etc)	Lab	Pack
Cubic Yard Boxes Totes (Please specify size)		hand.
Drums (Select size) 35/55 ga\ Other (Please specify)		
Shipping Frequency		
Number of Units Month Quarter Year	Other	
	<del></del> -	
G. R.C.R.A. CHARACTERIZATION:	<del> </del>	
Is this a USEPA "Hazardous Waste" per 40CFR 261.3?  Yes  No  O	If "No", Please s	skip to section H.
Is this a "Universal Waste" per 40CFR part 273?  Yes  No  No		
Is this a "Characteristic Waste"?  Yes  No  O		
	3 Reactive	
Characteristic for Toxic Metals:	_	
O D004 O D005 O D006 O D007 O D008 O D00	9 <b>O</b> D010	O D011
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Is this an "F" or "K" Listed waste or mixed				
1	with one? Yes (	⊃ No Q		
If "Yes", Please list all applicable code(s)	from 40CFR261.31 and/or	261.32:		Maria sebesah selajar se Maria sebi sebi sebi sebi se se pe berangan sebi sebi sebi sebi sebi sebi sebi sebi
Is this a commercial chemical product or	spill cleanup that would c	arry a "U" or "P"		
waste code under 40CFR 261.33 (e) or	(f) Yes 🔿	No⊗		
If "Yes", Please list all applicable waste c	ode(s)			
Is this a state regulated waste?	Yes 🔇 No 🔿			A COMMISSION OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY O
If "Yes", Please list all codes. DOIR,	0121204/ H			
th. Dot shipping information: ——				<u> </u>
Is this a U.S. Dept. of Transportation (USE	OOT) Hazardous Material?	Yes 🐼	No O	
Proper Shipping Name per 49CFR 172.10	)1 Hazardous Materials Tab	ole: Bromobenz	me	
"Reportable Quantity" (if any)	lbs	× 1711111 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1	hanger Martin Co. C. C. C. C. C. C. C. C. C. C. C. C. C.	- Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Comp
Hazard Class or Division No. 3 UN.	/NA # 2514 Packi	ing Group 🔲 l		$\mathbf{X}$ III
is this a "Poison Inhalation Hazard"?	Yes O N	lo <b>Ø</b>		
If "Yes", Please indicate Hazard Zone	Zone A Zone B	Zone C	Zone D	Other
List two primary hazardous constituents:	1 Bromobenzeni	2		
knowledge and ability. No deliberate or all known or suspected hazards have be				
of the waste material described above at Name  Roward Signature  Roward Signature	nd give PCI permission and	Title FHS MA	mendments an	nd corrections.
of the waste material described above at Name  Roward Signature  Roward Signature	nd give PCI permission and	Title FHS MA	mendments an	nd corrections.
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Date: 3/21/2008 Time: 1:58:36 PM



1 drum



# **Material Safety Data Sheet**

NFPA	HMIS	Personal Protective Equipment
120	Health Hazard 2	
	Reactivity 0	See Section 15.

Section 1. Chemi	cal Product and Company Identification			Page Number: 1
Common Name/ Trade Name	Bromobenzene		alog nber(s).	B1150
		CA	S#	108-86-1
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.	RT	ECS	CY9000000
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSC	CA	TSCA 8(b) inventory: Bromobenzene
Commercial Name(s)	Not available.	CI#		Not available.
Synonym	Monobromobenzene; Phenyl Bromide	Thi	OAGE OF	DATED ADMICT
Chemical Name	Benzene, bromo-			EMERGENCY (24hr) 800-424-9300
Chemical Family	Not available	CAL	LL (310) 5	16-8000
Chemical Formula	C6H5Br			
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248			

				Exposure Limits		
Name		CAS#	TWA (mg/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weigh
1) Bromobenzene		108-86-1				100
Toxicological Data on Ingredients	Bromobenzene: ORAL (LD50):	Acute: 2383 r	ng/kg [Rat]. 2700 m	g/kg [Mouse]. 17	00 mg/kg [Guinea	a pig].

## Section 3. Hazards Identification

Potential Acute Health Effects Hazardous in case of skin contact (irritant), of eye contact (irritant). Slightly hazardous in case of ingestion, of

inhalation.

Potential Chronic Health

Effects

CARCINOGENIC EFFECTS: Not available.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available.
The substance is toxic to the nervous system.

The substance may be toxic to kidneys, liver.

Repeated or prolonged exposure to the substance can produce target organs damage.

## Continued on Next Page

Bromobenzene	Page Number: 2
Section 4. First Aid M	leasures
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. WARM water MUST be used. Get medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse Get medical attention.
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Serious Inhalation	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek medical attention.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to ar unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention it symptoms appear.
Serious Ingestion	Not available.
Section 5. Fire and Ex	φlosion Data
Flammability of the Product	Flammable.
Auto-Ignition Temperature	565°C (1049°F)
Flash Points	CLOSED CUP: 51.1°C (124°F).
Flammable Limits	Not available.
Products of Combustion	These products are carbon oxides (CO, CO2).
Fire Hazards in Presence of Various Substances	Flammable in presence of open flames and sparks, of heat.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge; Not available.
Fire Fighting Media and Instructions	Flammable liquid, soluble or dispersed in water.  SMALL FIRE: Use DRY chemical powder.  LARGE FIRE: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.
Special Remarks on Fire Hazards	Vapors may form explosive mixtures with air. Vapor may travel considerable distance to source of ignition and flash back.
Special Remarks on Explosion Hazards	Not available.
Section 6. Accidental	Release Measures
Small Spill	Absorb with an inert material and put the spilled material in an appropriate waste disposal.
Large Spill	Flammable liquid.  Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas: dike if needed

## Continued on Next Page

or confined areas; dike if needed.

Bromobenzene			Page Number: 3
Section 7. Handling a	nd Storage		
Precautions	ingest. Do not breathe gas/fumes/ vapor/spray.	Wear suit	Ground all equipment containing material. Do not table protective clothing. If ingested, seek medical world contact with skin and eyes. Keep away from
Storage	Store in a segregated and approved area. Ke tightly closed and sealed until ready for use. Avoi		er in a cool, well-ventilated area. Keep container ble sources of ignition (spark or flame).
Section 8. Exposure (	Controls/Personal Protection	<del>, , , , , , , , , , , , , , , , , , , </del>	
Engineering Controls			keep the airborne concentrations of vapors below h stations and safety showers are proximal to the
Personal Protection	Splash goggles, Synthetic apron or Chemical resistant protective suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves (impervious). PVC or Viton gloves are revommended by ACGIH.		
Personal Protection in Case of a Large Spill			es. A self contained breathing apparatus should be tective clothing might not be sufficient; consult a
Exposure Limits	Not available,		
Section 9. Physical ar	nd Chemical Properties		
Physical state and appearance	Liquid.	Odor	Aromatic.
Molecular Weight	157.02 g/mole	Taste	Not available.
pH (1% soln/water)	Not available.	Color	Clear Coloriess.
Boiling Point	156.2°C (313.2°F)		
Melting Point	-30.6°C (-23.1°F)		***
Crifical Temperature	397°C (746.6°F)		
Specific Gravity	1.5 (Water = 1)		
Vapor Pressure	0.4 kPa (@ 20°C)		
Vapor Density	5.41 (Air = 1)	<del></del>	
Volatility	Not available		
Odor Threshold	Not available.	····	
Water/Oil Dist. Coeff.	The product is more soluble in oil; log(oil/water) =	3	
Ionicity (in Water)	Not available.		
Dispersion Properties	See solubility in water, diethyl ether		
Solubility	Easily soluble in diethyl ether. Very slightly soluble in cold water.		
Section 10. Stability a	nd Reactivity Data		
Stability	The product is stable.	<del></del>	
Instability Temperature	Not available		
Conditions of Instability	Heat, ignition sources, incompatible materials		
Incompatibility with various substances	Reactive with oxidizing agents.		
Corrosivity	Non-corrosive in presence of glass.		
Continued on Next F	Page Page		

Bromobenzene		Page Number: 4
Special Remarks on Reactivity	Not available.	
Special Remarks on Corrosivity	Not available.	
Polymerization	Will not occur.	

Routes of Entry	Absorbed through skin. Eye contact. Inhalation. Ingestion.	
Toxicity to Animais	WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE.  Acute oral toxicity (LD50): 1700 mg/kg [Guinea pig].  Acute toxicity of the vapor (LC50): 21000 mg/m³ 2 hours [Mouse].	
Chronic Effects on Humans	Causes damage to the following organs: the nervous system.  May cause damage to the following organs: kidneys, liver.	
Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant). Slightly hazardous in case of ingestion, of inhalation.	
Special Remarks on Toxicity to Animals	Lethal Dose/Conc 50% Kill: LD50 [Rabbit] - Route: Oral; Dose: 3300 mg/kg	
Special Remarks on Chronic Effects on Humans	Not available.	
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Skin: Causes skin irritation. It may be absorbed through the skin and cause systemic effects. Eyes: Causes eye irritation. Inhalation: Can cause respiratory tract irritation causing coughing and wheezing. It may cause nausea Inhalation of high concentrations can affect behavior/central nervous system and cause headache, lightheadedness, dizziness, somnolence, muscle contraction or spasticity,narcotic effects, unconciousness coma. It may also affect the liver, peripheral nervous system, and cause blood changes. Ingestion: Causes gastrointestinal tract irritation with nausea, anorexia, vomiting, hypermotility, diarrhea. It may affect the urinary system (kidneys, liver Chronic Potential Health Effects: Ingestion and Inhalation: Prolonged or repeated ingestion or inhalation may affect the liver and kidneys.	

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation product may arise.
Toxicity of the Products of Blodegradation	The products of degradation are less toxic than the product itself.
Special Remarks on the Products of Biodegradation	Not available.

Section 13. Dis	posal Considerations
Waste Disposal	Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## Continued on Next Page

Bromobenzene		Page Number: 5	
Section 14. Transport Information			
DOT Classification	CLASS 3: Flammable liquid.		
Identification	: Bromobenzene UNNA: 2514 PG: III		
Special Provisions for Transport	Marine Pollutant		
DOT (Pictograms)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		

## Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations

Connecticut hazardous material survey.: Bromobenzene

Pennsylvania RTK: Bromobenzene Massachusetts RTK: Bromobenzene Massachusetts spill list: Bromobenzene New Jersey: Bromobenzene TSCA 8(b) inventory: Bromobenzene

TSCA 8(a) dioxin/furan precursor: Bromobenzene

TSCA 8(d) H and S data reporting: Bromobenzene: Effective date: 6/1/87; Sunset date: 12/19/95

California Proposition 65 Warnings	found to cause car California prop. 65	ncer which would require a warning unc : This product contains the following in	ngredients for which the State of California has der the statute: No products were found. ngredients for which the State of California has ng under the statute: No products were found.	
Other Regulations	EINECS: This productors: This productors are considered and considered and considered and considered are considered. Listed on National Considered and National Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered and Considered	National Inventory (ENCS). National Inventory (KECI). d on National Inventory (PICCS).		
Other Classifications	WHMIS (Canada)	CLASS B-3: Combustible liquid with a (200°F). CLASS D-2B: Material causing other t	flash point between 37.8°C (100°F) and 93.3°C roxic effects (TOXIC).	
	DSCL (EEC)	R10- Flammable. R38- Irritating to skin. R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	S61- Avoid release to the environment. Refer to special instructions/Safety data sheets.	
HMIS (U.S.A.)	Afeilth Hazard Fire Hazard	National Fire Protection Association (U.S.A.)	Flammability  Health 1 0 Reactivity	

Personal Protection	H	
Reactivity	0	
Fire Hazard	2	
Helidi Paterd	2	i X

Reactivity Specific hazard

WHMIS (Canada) (Pictograms)





DSCL (Europe) (Pictograms)





Continued on Next Page

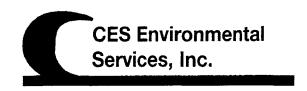
Bromobenzene			Page Number: 6
TDG (Canada) (Pictograms)		>	
ADR (Europe) (Pictograms)		>	
Protective Equipment		Gloves (impervious).	
	A	Synthetic apron.	
		Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.	
		Splash goggles.	
	-		

MSDS Code	B3880		
References	Not available.		
Other Special Considerations	Major Uses: In organic synthesis, especially to make Magnesium Bromide; as an additivie to motor oils; as a solvent, especially for crystallizationson a large scale and where heavy liquid is desirable.		
Validated by Sonia Owen on 3/21/2008.		Verified by Sonia Owen.	
		Printed 3/21/2008.	

#### C:122 (010) 010 000

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, inc. assumes no responsibility for the completeness or accuracy of the information contained herein.



## **Material / Product Approval Letter**

Date 7/27/2009

Dear Ronald Smith

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3438

**Expiration Date** 7/27/2011

Producer: ZaCh System Corp. (La Porte)

Address: 914 South 16th Street

La Porte, TX 77571

Material / Product Information

Name of Material / Product Unused hydrogen peroxide

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Unused hydrogen peroxide 35%

Onused hydrogen peroxide 3370

Odor: None

**pH:** 3-4

Color: Clear Physical State:

Incompatibilities: Combustible materials; ORGANICS; ACIDS; see section 6 of

MSDS; see section 10 of MSDS

Safety Related Data/Special Handling:

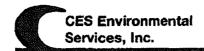
Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460

Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

JB	
JR	
Zn	o du tur
•	Ap.

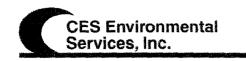
SECTION 1: Materi	al Producer Information	1			
Company:	ZaCh System Corp. (	La Porte)			
Address :	914 South 16th Street	914 South 16th Street			
City, State, Zip:	La Porte TX 77571				
Contact:	Ronald Smith		Title :		
Phone No:	(281) 842-0201		Fax:	(281) 867-1734	
24 / HR Phone:					
U.S EPA I.D No :	TXR000079062				
State I.D:	88429		SIC Code	na	
SECTION 2: Billing	Information				
Company:	ZaCh System Corp. (I	a Porte)			
Address:	914 South 16th Street	914 South 16th Street			
City, State, Zip:	La Porte TX 77571				
Contact:	Ronald Smith		Title:		
Phone No:	(281) 842-0201		Fax:	(281) 867-1734	
SECTION A. Comme	al Dagarintian at the files	terial (Deceluat			
	I Product : Unused hy				
	_		- 45 - Blotomial / Duados	4.	
•		enerating or Producing	g the material / Produc	; <b>(;</b>	
Unused hydrogen	peroxide 35%				
Physical State:	<b>☑</b> Liquid	<b>⊠</b> Sludge	Powder		
Physical State:	<b>☑</b> Liquid <b>図</b> Solid	Sludge Filter Cake	Powder     Combination		
Physical State : Color :		_		none	~
•	Solid	Filter Cake	Combination	none 8-9	ibs / gal
Color : Specific Gravity (	Solid	Filter Cake Clear 1.11	© Combination Odor:		ibs / gal
Color : Specific Gravity (	図 Solid  Water≔1):	Filter Cake Clear 1.11	© Combination Odor: Density: Yes		lbs / gal
Color : Specific Gravity (	図 Solid  Water≔1):	Siller Cake Clear 1.11 Ic compounds?	© Combination Odor: Density: Yes	8-9	ibs / gai
Color: Specific Gravity ( Does this material of	Solid  Water=1): contain any total phenol contain any para substit	Filter Cake  Clear  1.11  Ic compounds?  uted phenolic compound  Multi-Phase	© Combination Odor: Density: Yes	8-9 <b>№</b> No	ibs / gal
Color: Specific Gravity ( Does this material of Does this material of Layers:	Solid  Water=1): contain any total phenol contain any para substit	Filter Cake  Clear  1.11  Ic compounds?  cuted phenolic compound  Multi-Phase	© Combination  Odor:  Density:  Yes  No	8-9 <b>№</b> No	ibs / gal
Color: Specific Gravity ( Does this material of Does this material of Layers: Container Type:	Solid  Water=1):  contain any total phenolecontain any para substit  Single-Phas  Drum  55	Filter Cake  Clear  1.11  Ic compounds?  cuted phenolic compound  Multi-Phase	© Combination  Odor:  Density:  Yes  No	8-9 <b>№</b> No	ibs / gal
Color: Specific Gravity ( Does this material of  Does this material of  Layers: Container Type: Container Size: Number Of Units	Solid  Water=1): contain any total phenol contain any para substit  Single-Phas  Drum  55  1	Filter Cake  Clear  1.11  Ic compounds?  Luted phenotic compound  Multi-Phase  Tote  Tote	© Combination  Odor: Density: Yes V No Se? Yes  Tuck © Other (exp	8-9 <b>№</b> No	

Flash Point	рН 3-4	Reactive Sulfides na mg/l	Reactive Cyanides na mg/l	Solids %
Oil and Grease	TOC	Zinc	Copper	Nickel
namg/l	namg/l	na mg/l	na mg/l	na mg/l

**SECTION 4: Physical and Chemical Date** 

COMPONENTS TABLE	Concentration	e unic
The material / product consists of the following materials	Ranges are acceptable	or %
hydrogen peroxide	20-50	%
water	5o-80	%

The material / product consists of the following materials	Ranges are acceptable	or %
hydrogen peroxide water	20-50 50-80	% %
	-	
SECTION 5: Safety Related Data		
f the handling of this material / product requires the use of special protective e std PPE	quipment, please explain.	
SECTION 6: Attached Supporting Documents	Abo moderial / muselines modile	
ist all documents, notes, data, and/or analysis attached to this form as part of nsds	the material / product profile.	
SECTION 7: Incompatibilities		
Please list all incompatibilities (if any): Combustible materials; 'ORGANICS; ACIDS'; see section 6 of MSDS; see section 10	of MSDS	
ECTION 8: Material Producer's Certification		
The information contained herein is based on generator knowledge and/or bove and attached description is complete and accurate to the best of my knowleliberate or willful omissions of composition properties exist and that all knowlisclosed. I certify that the materials tested are representative of all materials contains the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of	wledge and ability to determine the In or suspected hazards have been	at no
Authorized Signature :	Date: 7/22/29	
Printed Name / Title: Rouald E. Smith / EHS Manage		
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information :	•
Compliance Officer: Prabhakar Thangudu		
Date: 7-27-09 Status: Approved Rejected		
Approval Number :		



1. Base Pricing (including freight):
No charge - transonly
2. Contamination Limit (maximum limit before surchages apply):
Must be unused product
3. Surcharge Pricing:
4. Special Testing Requirements:
Must be unused
5. Treatment and Handling Protocol:
Use in www treatment
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



7. Tes	ts for Pro	duct Recove	red/Recycled (if a	pplicable):		 	
	Se	2 5	etim 4				
8. Ma			: Recovered/Recy	cled (if applic	cable)		
	Su	Section	, 5				

MSDS Number: **H4065** * * * * * Effective Date: 01/09/08 * * * * * Supercedes: 08/02/07

24 Hour Emergency Telephone: 908-859-215 CHEMTREC: 1-800-424-9380 Netional Response in Car CANUTEC: \$13-996-9665 Material Safety Data Sheet

Mallinckrodt Baker, Inc. 222 Red School Lane Phillipsburg, NJ 08865 CHEMICALS



Gutside U.S. and Canada Chemtres: 703-527-3687 NOTE: CHEMITIES CANUTES and Nation

All non-emergency questions should be directed to Customer Service (1-800-552-2537) for assistance

# **HYDROGEN PEROXIDE SOLUTION, 30%**

#### 1. Product Identification

Synonyms: Peroxide; 100 volume peroxide; Hydrogen dioxide solution; Hydrogen peroxde, 30%, unstabilized; Hydrogen Peroxide, 30%, Ultrex®

CAS No.: 7722-84-1 Molecular Weight: 34.01 Chemical Formula: H2O2

**Product Codes:** J.T. Baker: 2186, 2189, 2190, 2200, 2201, 2202, 2203, 2204, 3664, 5155, 5170, 5369, 5516, 5803, 5816, 5846, 5853, 5895, 5898, 5899, 5995, 6995

Mallinckrodt: 5240, H021, V340

## 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Hydrogen Peroxide Water	7722-84 <b>-1</b> 7732-18-5	29 - 32% 68 - 71%	Yes
water	1132-18-5	68 - 71-5	No

#### 3. Hazards Identification

# **Emergency Overview**

DANGER! STRONG OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE. CORROSIVE. CAUSES BURNS TO SKIN, EYES, AND RESPIRATORY TRACT. HARMFUL IF SWALLOWED OR INHALED.

SAF-T-DATA^(tm) Ratings (Provided here for your convenience)

Health Rating: 3 - Severe (Life) Flammability Rating: 0 - None Reactivity Rating: 3 - Severe (Oxidizer) Contact Rating: 4 - Extreme (Corrosive)

Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES Storage Color Code: White (Corrosive)

#### Potential Health Effects

Vapors are corrosive and irritating to the respiratory tract. Inhalation of mist may burn the mucous membrane of the nose and throat. In severe cases, exposures may result in pulmonary edema and death.

Corrosive and irritating to the mouth, throat, and abdomen. Large doses may cause symptoms of abdominal pain, vomiting, and diarrhea as well as blistering or tissue destruction. Stomach distention (due to rapid liberation of oxygen), and risk of stomach perforation, convulsions, pulmonary edema, coma, possible cerebral edema (fluid on the brain), and death are possible.

Corrosive. Symptoms of redness, pain, and severe burn can occur.

Eye Contact:

Vapors are very corrosive and irritating to the eyes. Symptoms include pain, redness and blurred vision. Splashes can cause permanent tissue destruction. Chronic Exposure:

No information found.

Aggravation of Pre-existing Conditions:

Persons with pre-existing skin disorders or eye problems or impaired respiratory function may be more susceptible to the effects of the substance.

http://www.jtbaker.com/msds/englishhtml/H4065.htm

#### 4. First Aid Measures

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Skin Contact:

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse. If allowed to dry on clothing, evaporation leads to concentration and increased possibility of ignition.

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Note to Physician:

Pulmonary edema may be delayed for 24 to 72 hours: keep under observation. Gastric layage may be necessary if swallowed. Analysis of body fluids (particularly gastric aspirates) using the titanium chloride reaction, if done immediately, will reveal peroxides.

# 5. Fire Fighting Measures

Not combustible, but substance is a strong oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. Increases the flammability of combustible, organic and readily oxidizable materials.

Explosion:

Contact with oxidizable substances may cause extremely violent combustion. Drying of concentrated hydrogen peroxide on clothing or other combustible materials may cause fire or explosion. Sealed containers may rupture when heated.

Fire Extinguishing Media:

Water spray may be used to extinguish surrounding fire and cool exposed containers. Water spray will also reduce fume and irritant gases.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

#### 6. Accidental Release Measures

CAUTION! Caustic material. Causes fires with organic material. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Contain and recover liquid when possible. Do not return spilled material to original container.

Larger Spills: Dilute with a large amount of water and hold in a pond or dyked area until the peroxide decomposes followed by discharge into a suitable treatment system. May be neutralized with sodium metabisulfite or sodium sulfite after diluting to 5-10% peroxide.

Do not flush undiluted material to sewer. This oxidizing material can increase the flammability of adjacent combustible materials. Empty containers should be rinsed with water before discarding.

# 7. Handling and Storage

Store in a cool(< 35C), well-ventilated dark area separated from combustible substances, reducing agents, strong bases, organics. Do not store on wooden shelves or floors. Suggest rotation of stock. Containers must be vented, but check periodically for bulging containers which can burst from pressure. Protect containers from physical damage, contamination, heat and incompatibles.. Contamination from any source (dust, metals) may cause rapid decomposition with generation of large quantities of oxygen gas and high pressures. Rinse empty containers thoroughly with clean water. Glass, polyethylene, stainless steel and aluminum are recommended materials for storage containers. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

## 8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

-OSHA Permissible Exposure Limit (PEL):

1 ppm (TWA).

-ACGIH Threshold Limit Value (TLV):

1 ppm (TWA), A3: Animal carcinogen.

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details. Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded, wear a supplied air, full-facepiece respirator, airlined hood, or full-facepiece self-contained breathing apparatus. This substance has unknown warning properties.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

### 9. Physical and Chemical Properties

Appearance:

http://www.jtbaker.com/msds/englishhtml/H4065.htm

```
Clear, colorless liquid.
Odor:
Slight acrid odor.
Solubility:
Infinitely soluble.
Density:
1.11
pH:
3.3
% Volatiles by volume @ 21C (70F):
100
Boiling Point:
108C (226F)
Melting Point:
-25C (-13F)
Vapor Density (Air=1):
1.17
Vapor Pressure (mm Hg):
25 @ 30C (86F)
Evaporation Rate (BuAc=1):
< 1
```

# 10. Stability and Reactivity

#### Stability:

Normally stable if uncontaminated, but slowly decomposes to release oxygen. Unstable with heat, may result in dangerous pressures. A strong oxidizer, reacts violently upon contact with many organic substances, particularly textile and paper. Avoid light and keep in a closed but vented container to prevent evaporation (concentration) and contamination.

#### Hazardous Decomposition Products:

Decomposes to water and oxygen with rapid heat release. Use vented containers. The solution can decompose violently upon heating.

#### Hazardous Polymerization:

Will not occur.

Incompatibilities:

Heat, reducing agents, organic materials, dirt, alkalis, rust, and many metals. Spontaneous combustion may occur on standing in contact with readily flammable materials

Conditions to Avoid:

Avoid excess heat and contact with combustible or organic materials. Light and incompatibles.

## 11. Toxicological Information

For Hydrogen peroxide: No LD50/LC50 information found relating to normal routes of occupational exposure. Investigated as a tumorigen and mutagen.

NTP	Carcinogen	
Known	Anticipated	IARC Category
No.	No.	3
No	No	None
	NTP Known  No	No No

## 12. Ecological Information

Environmental Fate: No information found. Environmental Toxicity: No information found.

## 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

## 14. Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name: HYDROGEN PEROXIDE, AQUEOUS SOLUTION (WITH 30-32% HYDROGEN PEROXIDE) Hazard Class: 5.1, 8

UN/NA: UN2014

Packing Group: II

Information reported for product/size: 463LB

International (Water, I.M.O.)

Proper Shipping Name: HYDROGEN PEROXIDE, AQUEOUS SOLUTION (WITH 30-32% HYDROGEN PEROXIDE)

UN/NA: UN2014 Packing Group: II

Information reported for product/size: 463LB

#### 15. Regulatory Information

Ingredient	Inventory Status - Par		TSCA	EC	Japan	Australia
Hydrogen Peroxide Water (7732-18-5)			Yes	Yes	Yes	
\Chemical	Inventory Status - Par	t 2\				
Ingredient			Korea	DSL	anada NDSL	Phíl.
Hydrogen Peroxide Water (7732-18-5)				Yes	No	Yes Yes
	State & International	-SARA	A 302-		<b>-</b> \$AR	A 313
Ingredient	State & International i	-SARA	A 302- TPQ	Lis	<b>-</b> SARI	
Ingredient 	••••	-SARA RQ 	A 302- TPQ  No	Lis	SAR	A 313 mical Catg
Ingredient	••••	-SARI RQ  No No	A 302- TPQ  No No	Lis No No No	SARI st Cher	A 313 mical Catg No No
Ingredient Hydrogen Peroxide Water (7732-18-5)\Federal, Ingredient	(7722-84-1) State & International	-SARA RQ  No No No Regulati	A 302- TPQ NO NO NO	Lis No No No Part 2 -RCRA- 261.33	SARI	A 313 mical Catg No No No SCA- (d)
Ingredient Hydrogen Peroxide Water (7732-18-5)\Federal, Ingredient	(7722-84-1) State & International	-SARA RQ  NO NO Regulati CERCI	A 302- TPQ NO NO NO	Lis No No No Part 2	SARI	A 313 mical Cate No No No SCA- (d)

Chemical Weapons Convention: No TSCA 12 SARA 311/312: Acute: Yes Chronic: No TSCA 12(b): No CDTA: No cic: No Fire: Yes Pressure: No (Mixture / Liquid) Reactivity: Yes

Australian Hazchem Code: 2P

Poison Schedule: S6

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

#### 16. Other Information

NFPA Ratings: Health: 3 Flammability: 0 Reactivity: 1 Other: Oxidizer
Label Hazard Warning:
DANGER! STRONG OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE. CORROSIVE. CAUSES BURNS TO SKIN, EYES, AND RESPIRATORY TRACT. HARMFUL IF SWALLOWED OR INHALED.

**Label Precautions:** 

Keep from contact with clothing and other combustible materials.

Do not store near combustible materials. Do not get in eyes, on skin, or on clothing

Do not breathe vapor or mist.

Store in a tightly closed container.

Use only with adequate ventilation

Remove and wash contaminated clothing promptly

Wash thoroughly after handling.

Avoid contamination from any source, metals, dust, and organic materials that may cause rapid decomposition, generation of large quantities of oxygen gas and high pressure. Drying of product on clothing or combustible materials may cause fire.

Label First Aid:

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. In all cases get medical attention immediately.

**Product Use:** 

Laboratory Reagent.

Revision Information:

MSDS Section(s) changed since last revision of document include: 13.

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# ARKEMA

# Hydrogen Peroxide, 50% (All Grades)

Material Safety Data Sheet

#### Arkema Inc.

## 1 PRODUCT AND COMPANY IDENTIFICATION

**Basic Chemicals** 

2000 Market Street

**EMERGENCY PHONE NUMBERS:** 

Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887

Medical: Rocky Mountain Poison Control Center

(866) 767-5089 (24Hrs)

Philadelphia, PA 19103

Information Telephone Numbers

Phone Number

Available Hrs

**Product Information** 

215-419-7704

8:30 a.m. - 5:00 p.m.

(Eastern)

**Product Name** 

Hydrogen Peroxide, 50% (All Grades)

Product Synonym(s)

Chemical Family

Peroxide

Chemical Formula

H2O2

Chemical Name

Hydrogen Peroxide Solution, 50%

EPA Reg Num Product Use

IN CANADA, IN CASE OF EMERGENCY CALL:

CANUTEC 613-996-6666

# 2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS RegistryNumber	Typical Wt. %	OSHA
Hydrogen peroxide	7722-84-1	50%	Υ
Water	7732-18-5	50%	N

The substance(s) marked with a "Y" in the OSHA column, are identified as hazardous chemicals according to the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200)

This material is classified as hazardous under Federal OSHA regulation.

The components of this product are all on the TSCA Inventory list.

## 3 HAZARDS IDENTIFICATION

# **Emergency Overview**

Water white liquid with slightly sharp odor.

DANGER!

CAUSES EYE BURNS. MAY CAUSE BLINDNESS.

CAUSES SKIN BURNS.

CAUSES RESPIRATORY TRACT BURNS.

HARMFUL IF SWALLOWED.

STRONG OXIDIZER.

CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE OR EXPLOSIVE DECOMPOSITION.

## **Potential Health Effects**

Inhalation and skin contact are expected to be the primary routes of occupational exposure to this material. Based on single exposure animal tests, it is considered to be moderately toxic if swallowed, practically non-toxic if absorbed

Product Code: 04503 Revision: 20 Issued: 12 OCT 2004 Page 1 of 6



Material Safety Data Sheet

#### Arkema Inc.

through skin, slightly toxic if inhaled, and corrosive to eyes and skin. Inhalation of high concentrations of vapor or mist may cause severe irritation of the eyes, nose and upper respiratory tract with cough, chest discomfort and, in severe cases, pulmonary edema (accumulation of fluid in the lungs). Skin contact with concentrated liquid for a short period of time may cause a temporary whitening or bleaching of the skin. Prolonged or repeated contact with skin may cause severe irritation or burns characterized by a tingling sensation, redness, swelling and possible destruction of the dermis with ulceration. If swallowed, this material may cause irritation, burns or perforation of the gastrointestinal tract including the stomach and intestines. Symptoms of injury may include nausea, vomiting, diarrhea, abdominal pain, bleeding or tissue ulceration.

#### 4 FIRST AID MEASURES

IF IN EYES, immediately flush with plenty of water for at least 15 minutes. Get medical attention.

IF ON SKIN, immediately flush with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Destroy contaminated shoes.

IF SWALLOWED, do NOT induce vomiting. Give water to drink. Get medical attention immediately. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

IF INHALED, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

#### **5 FIRE FIGHTING MEASURES**

#### Fire and Explosive Properties

Auto-Ignition Temperature

NA

Flash Point

None NA Flash Point Method

Flammable Limits- Upper

Lower

NA

#### **Extinguishing Media**

Use water spray, water fog.

#### Fire Fighting Instructions

Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent). Fire fighting equipment should be thoroughly decontaminated after use.

#### Fire and Explosion Hazards

Solutions above 65% are especially hazardous as they do not contain enough water to remove the heat of decomposition by evaporation. Avoid breathing fumes from fire exposed material.

#### **6 ACCIDENTAL RELEASE MEASURES**

### In Case of Spill or Leak

Stop the leak, if possible. Ventilate the space involved. Flush with plenty of water. Combustible materials exposed to hydrogen peroxide should be rinsed immediately with large amounts of water to ensure that all the hydrogen peroxide is removed. Residual hydrogen peroxide which is allowed to dry on organic materials such as paper, fabrics, cotton, leather, wood, or other combustibles can cause the material to ignite and result in a fire. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

Product Code: 04503 Revision: 20 Issued: 12 OCT 2004 Page 2 of 6



Material Safety Data Sheet

Arkema Inc.

#### 7 HANDLING AND STORAGE

#### Handling

Do not get in eyes, on skin or on clothing. Do not breathe mist. Do not taste or swallow. Wash thoroughly after handling. Use only with adequate ventilation. Avoid contamination. Keep container closed.

#### Storage

Store separate from acids, alkalies, reducing agents, combustibles.

#### 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Engineering Controls**

Investigate engineering techniques to reduce exposures below airborne exposure limits. Provide ventilation if necessary to control exposure levels below airborne exposure limits (see below). If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.

#### **Eye / Face Protection**

Where there is potential for eye contact, wear a face shield, chemical goggles, and have eye flushing equipment immediately available.

#### **Skin Protection**

Neoprene, Polyvinyl chloride, Butyl rubber Gloves should be worn when handling this material. Wear chemical goggles, a face shield, and chemical resistant clothing such as a rubber apron when splashing may occur. Rinse immediately if skin is contaminated. Remove contaminated clothing promptly and wash before reuse. Clean protective equipment before reuse. Provide a safety shower at any location where skin contact can occur. Wash skin thoroughly after handling.

## **Respiratory Protection**

Avoid breathing vapor or mist. When airborne exposure limits are exceeded (see below), use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where exposure limit may be significantly exceeded, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

# Other Protective Equipment

Rubber boots with neoprene or pvc soles. Do NOT wear leather boots. Note: As the water content of hydrogen peroxide evaporates, cotton, rayon, and wool fibers are particularly subject to spontaneous combustion. Where there is significant risk of sudden splash or spray, it is advised that an apron or rubber suit be worn. Any contaminated clothing, including gloves, shoes, aprons, coveralls, etc., should be removed immediately and thoroughly flushed with water to eliminate any traces of hydrogen peroxide before cleaning and reuse.

#### Airborne Exposure Guidelines for Ingredients

Exposure Limit	Value
Hydrogen peroxide	

ACGIH TWA - 1 ppm 1.4 mg/m3
OSHA TWA PEL - 1 ppm 1.4 mg/m3

-Only those components with exposure limits are printed in this section.

-Skin contact limits designated with a "Y" above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required.

-ACGIH Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic reactions.

-WEEL-AlHA Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic skin reactions.

Product Code: 04503 Revision: 20 Issued: 12 OCT 2004 Page 3 of 6



Material Safety Data Sheet

#### Arkema Inc.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor

Water white liquid with slightly sharp odor.

Hq

NF

Specific Gravity

1.196 @ 20 C

Vapor Pressure

18.3 @ 20 C

Vapor Density

1.0

Melting Point Freezing Point NE -52 C (-62 F)

Boiling Point

114 C (237 F)

Solubility In Water

Complete

Percent Volatile

100%

Molecular Weight

34.01

#### 10 STABILITY AND REACTIVITY

#### Stability

This material is chemically stable under normal and anticipated storage and handling conditions.

## Incompatibility

Material decomposes with the potential to produce a rupture of unvented closed containers. Contact with metals, metal ions, organics, wood, dust, shavings, dry vegetables may cause decomposition.

#### **Hazardous Decomposition Products**

This material decomposes if contaminated, causing fire and possible explosions. Oxygen can be liberated at temperatures above ambient.

#### 11 TOXICOLOGICAL INFORMATION

#### **Toxicological Information**

Data on this material and/or its components are summarized below. Hydrogen Peroxide Single exposure (acute) studies indicate that this material is moderately toxic if swallowed (rat LD50 805 mg/kg; 70% solution), practically non-toxic if absorbed through skin (rabbit LD50 >6,500 mg/kg; 70% solution), slightly toxic if inhaled (no mortality in rats at 170 mg/m3 for 4 hours), and corrosive to rabbit eyes and skin. No skin allergy was observed in guinea pigs following repeated exposure. Solutions are commonly used for disinfecting wounds, bleaching hair or as a mouth wash and generally do not show adverse skin reactions. Accidental ingestion by children has resulted in death from lung edema, stomach erosions and gas distention and burns to the throat and esophagus. Eye and throat irritation and bleaching of hair have been reported by workers exposed to this material in the atmosphere.

Several studies have been conducted by administering material in the drinking water of mice and rats. The primary findings were irritation of the gastric mucous. Repeated inhalation exposure of rats and mice caused nasal irritation without notable adverse effects on the lining of the upper respiratory system. Repeated inhalation exposure of dogs resulted in upper respiratory tract irritation and emphysematous changes in the lungs. Generally, long-term oral dosing caused no adverse effects other than erosion of the stomach lining from direct application of the test material. Several studies have shown an increase in gastrointestinal tract tumors in mice and rats following long-term exposure in the drinking water. Concentrations less than 1% do not promote gastrointestinal tumors. The U.S. Federal Drug Administration has concluded that there is insufficient evidence of carcinogenicity and the International Agency for Research on Cancer (IARC) has concluded that this chemical is not classifiable as to its carcinogenicity to humans (Group 3). Genetic changes were observed in tests using bacteria and animal cells, but not in animals.

Product Code: 04503

Revision: 20 Issued: 12 OCT 2004

Page 4 of 6



Material Safety Data Sheet

Arkema Inc.

#### 12 ECOLOGICAL INFORMATION

## **Ecotoxicological Information**

Data on this material and/or its components are summarized below.

Hydrogen Peroxide

This material is highly toxic to marine algae (LC50 0.85 mg/l), moderately toxic to Daphnia magna (EC50 7.7 mg/l) and Daphnia pulex (LC50 2.4 mg/l). It is slightly toxic to coho salmon (LC50 10 mg/l), channel catfish (LC50 37.4 mg/l), golden orfe (LC50 35 mg/l), fathead minnow (LC50 16.4 mg/l), snail (LC50 17.7 mg/l) and bacteria (EC50 30 mg/l).

#### **Chemical Fate Information**

No data are available.

#### 13 DISPOSAL CONSIDERATIONS

### **Waste Disposal**

Consult with environmental engineer or professional to determine if neutralization is appropriate and for handling procedures for residual materials. Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive or otherwise different from federal laws and regulations.

#### 14 TRANSPORT INFORMATION

**DOT Name** 

Hydrogen Peroxide, Aqueous Solution,

**DOT Technical Name** 

DOT Hazard Class

5.1 UN 2014

UN Number

DO 11

**DOT Packing Group** 

PG II

RQ

**DOT Special Information** 

Subsidiary (8)

Non-Bulk packages must have Class 5.1 and Class 8 labels.

Bulk packages require Class 5.1 Oxidizer placards.

#### 15 REGULATORY INFORMATION

## Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370)

Immediate (Acute) Health Y

Fire

Υ

Delayed (Chronic) Health N

Reactive

Y N

Sudden Release of Pressure

The components of this product are all on the TSCA Inventory list.

# **Ingredient Related Regulatory Information:**

SARA Reportable Quantities

CERCLA RQ

SARA TPQ

Hydrogen peroxide

NE

1000 LBS

Water

ΝE

Product Code: 04503 Revision: 20 Issued: 12 OCT 2004 Page 5 of 6

# ARKEMA

# Hydrogen Peroxide, 50% (All Grades)

Material Safety Data Sheet

#### Arkema Inc.

#### SARA Title III, Section 302

This product does contain chemical(s), as indicated below, currently on the Extremly Hazardous Substance List, Section 302, SARA Title III. See Section 2 for further details regarding concentrations and registry numbers.

Hydrogen peroxide

#### Massachusetts Right to Know

This product does contain the following chemicals(s), as indicated below, currently on the Massachusetts Right to Know Substance List.

Hydrogen peroxide

# **New Jersey Right to Know**

This product does contain the following chemical(s), as indicated below, currently on the New Jersey Right-to-Know Substances List. Hydrogen peroxide

# Pennsylvania Environmental Hazard

This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Environmental Hazard List. Hydrogen peroxide

#### Pennsylvania Right to Know

This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Hazardous Substance List. Hydrogen peroxide

#### **16 OTHER INFORMATION**

#### **Revision Information**

Revision Date

12 OCT 2004

Revision Number 20

Supercedes Revision Dated

11-OCT-2004

### **Revision Summary**

Section 16 for Canada

#### Key

NE Not Established NA Not Applicable (R) = Registered Trademark

#### Miscellaneous

This MSDS covers the following grades of H2O2:

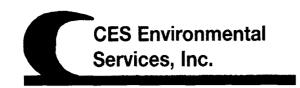
Albone; Alb; Alb A; Alb CG; MS; Alb MT; Alb LCL; Alb LC; AL-1; AL-2; AL-3; AL-4; A; Per; Perone; FG; ASG; AG; CG; Pure; M; DS; EG; KASTONE 50; Valsterane; Peroxal; CLG; SEG

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

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Product Code: 04503 Revision: 20 Issued: 12 OCT 2004 Page 6 of 6

**pH**: 3-11



# Waste Pre-Acceptance/Approval Letter

Date 7/27/2009

Dear Ronald Smith

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3437

**Expiration Date** 7/27/2011

Generator: ZaCh System Corp. (La Porte)

Address: 914 South 16th Street

La Porte, TX 77571

Waste Information

Name of Waste: Nonhaz Class 2 Solids

**TCEQ** Waste Code #: 01233192

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Off spec materials from manufacturing process

Off spec materials from manufacturing process

Color: Various Odor: None to faint

**Physical State:** 

Incompatibilities: Oxidizers, strong acids Safety Related Data/Special Handling:

Std PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460

From: Zach System

Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900 JR 15 Howster

SECTION 1: Gener	ator Informati	on										•		
Company:	ZaCh System Corp. (La Porte)													
Address :	914 South 1	6th Stre	et 914	South	16th Str	eet								
City, State, Zip:	La Porte TX	77571												
Contact:	Ronald Smit	h						Title :						
Phone No:	(281) 842-02	201						Fax:	(2	81) 867-	1734			
24 / HR Phone:								_						
U.S EPA I.D No :	TXR000079	062						_						
State I.D :	88429							SIC Co	ode					
SECTION 2: Billing	Information													
Company:	ZaCh Syster	n Corp.	(La Poi	rte)										
Address :	914 South 1		<del></del> -	<del></del>	16th Str	eet								
City, State, Zip:	La Porte TX	77571												-
Contact:	Ronald Smit	h						Title:						
Phone No :	(281) 842-02	201						Fax:	(2	81) 867-	1734			
SECTION 3: General	al Description	of the W	/aste											
Name of Waste:	Nonhaz Cl	ass 2	- Soli	مام										
Detailed Descript	tion of the P	rocess	Genera	ting W	aste:									
Off spec materials	from manufa	cturing	process	S										
Physical State :	☐ Liqui	d		<b>■</b> Slu	dge		<b>₽</b> Po	wder						
	<b>⊘</b> Solid	I		File	er Cake		<u></u> Co	mbinatio	n.					
Color:			V	arious		Od	or:				no	ne to fai	nt	
Specific Gravity (	Water=1):			na		De	nsity :				Na			lbs / gal
Does this material	contain any to	tal phen	olic con	npound	s?	☐ Ye	6	<b>₩</b> No						
Does this material	contain any pa	ara subs	tituted p	henolic	compo	unds?		Yes		<b>☑</b> No				
is the Waste subject	t to the benze	ne wast	e opera	tion NE	SHAP? (	40 CFR I	Part 61,	Subpart	FF)		Yes	$\mathbf{\nabla}$	No	
2812 2813 2	816 2819	2821	2822	2823	2824	2833	2834	2835	2836	2841	2842	2843	2844	2851
2861 2865 2	2869 2873	2874	2876	2879	2891	2892	2893	2896	2899	2911	3312	4953	4959	9511
Layers:	📝 Sing	le-Phas	;	■ Mu	iti-Phas	se								
Container Type :	Drun	) [	] T	ote		Truck	8	Other (	explai	n)				
Container Size :	55													
Number Of Units	: 25													
Is this a USEPA "I		-				ardous C		<b>☑</b> N nts Form	_	d hereto				
If "Yes", is it:	D001	D002		D003										

Characteristic for Toxic I	_	D005	=======================================		D007		
Ob an atalistic for Tools	D008	D009		_	D011		
Characteristics for Toxic	: Organics: D012 thr	u D043 (plea	ase list all that a	ippiy)			
Is this an "F" or "K" List			☐ Yes [	✓ No			
If "Yes", then please	list ALL applicable o	odes:					
Is this a commercial pro- 261.33(e) or (f)?	duct or spill cleanup	that would	carry a "U" or "	P" was	te code under 40 CFR	☐ Yes ☑ I	¥o
If "Yes", then please	list ALL applicable o	odes:					
Texas State Waste Code	• No :	33192					
Proper U.S. State Waste	Code No :		Non-RC	RA/No	n-DOT Regulated Materia	al	<u>-</u>
Class: na	UN/NA:_	na		PG:	na	RQ:	na
Flash Point	рН	F	Reactive Sulfid	es	Reactive Cyanides	Solids	
>150	3-11	_	<20	mg/l	<20 mg/	75-80	%
Oil and Grease	TOC		Zinc		Соррег	Nickel	
namg/	na na	_ mg/l	na	_mg/l	na mg/	na na	mg/
SECTION 4: Physical and C							
The meterial	COMPONENTS product consists of		vina materiale		Concentr	NOON WALLEST CO.	inis
The material			di hydra	<del>1</del> <	Ranges are ac		or %
:	Sign	12110	- H Myon	^-			%
						i	%
1							%
					-10	U	%
SECTION 5: Safety Related	Data						
If the handling of this wa	aste requires the us	 se of specia	ıl protective eq	uipme	ent, please explain.		
std ppe							
SECTION 6: Attached Supp							
List all documents, note	es, data, and/or ana	lysis attach	ed to this form	as pa	irt of the waste approva	i package.	
msds							
			,				
SECTION 7: Incompatibilitie Please list all incompati		<del></del> .					
riease list all incompati oxidizers, strong acids	Diffues (if any):						
SECTION 8: Generator's Kr	nowledge Documenta	tion					
Laboratory analysis of the	ne hazardous waste		istics, listed be	low, V	VAS NOT PERFORMED	based upon the	
TCLP Metals :	x						
TCLP Volatilies :	Ā						
TCLP Semi-Volatiles :	¥						
Reactivity :	<u>X</u>						
			2				

Corro	sivity: <u>X</u>
Ignita	bility: <u>x</u>
SECTI	ON 9: Waste Receipt Classification Under 40 CFR 437
ls this	material a wastewater or wastewater sludge ? ☐ YES ☑ NO
If 'YES	s', complete this section
	SE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE
<u>matait</u>	s Subcategory: Subpart A
	Spent electroplating baths and/or sludges  Metal finishing rinse water and sludges
	Chromate wastes
	Air pollution control blow down water and sludges
	Spent anodizing solutions
	Incineration wastewaters
	Waste liquid mercury  Cyanide-containing wastes greater than 136 mg/l
	Waste acids and bases with or without metals
	Cleaning, rinsing, and surface preparation solutions from electroplating or phospha
	Vibratory deburring wastewater
	Alkaline and acid solutions used to clean metal parts or equipment
Ш	Amantic and add additions dood to deat initial parts of equipment
Oile S	ubcategory: Subpart B
	Used oils
	Oil-water emulsions or mixtures
	Lubricants
$\overline{\Box}$	Coolants
_	Contaminated groundwater clean-up from petroleum sources
_	Used petroleum products
	Oil spill clean-up
	Bilge water
	Rinse/wash waters from petroleum sources
	Interceptor wastes
	Off-specification fuels
	Underground storage remediation wastes
	Tank clean-out from petroleum or oily sources
	Non-contact used glycols
	Aqueous and oil mixtures from parts cleaning operations
	Wastewater from oil bearing paint washes
	ics Subcategory Subpart C
_	Landfill leachate
=	Contaminated groundwater clean-up from non-petroleum sources
_	Solvent-bering wastes
_	Off-specification organic product
_	Still bottoms
	Byproduct waste giycol
	Wastewater from paint washes
_	Wastewater from adhesive and/or epoxies formulation
	Wastewater from organic chemical product operations

Tank clean-out from organic, non-petroleum sources	
(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste s	should be classified in the oils subcategory
(2) If the waste contains oil and grease less than 100 mg/L, and has any of the excess of the values listed below, the waste should be classified in the meta	
Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L	
(3) If the waste contains oil and grease less than 100 mg/L, and does not have or nickel above any of the values listed above, the waste should be classified	
☐ Metals Subcatego	
☐ Oils Subcatego	
☐ Organics Subcategory	
SECTION 10: Additional Instruction	
If you cannot determine the correct subcategory in Section 9 and you did not fur Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a comm concentrations. This will be prior to acceptance. The generator will be responsib	nercial laboratory a sample to determine these
SECTION 11: Generator's Certification	
The information contained herein is based on  generator knowledge an above and attached description is complete and accurate to the best of my deliberate or willful omissions of composition properties exist and that all disclosed. I certify that the materials jested are representative of all materials	knowledge and ability to determine that no known or suspected hazards have been
Authorized Signature: Kan Swith	Date: 7-22-09
Printed Name / Title: RONALIS Smith FAS Manager	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information :
Compliance Officer: Perhant Market Approved Rejected	
1 7472 ( /	
Approval Number: 31>1	



1. Base Pricing (including freight):
Call Joy for pricing info
2. Contamination Limit (maximum limit before surchages apply):
3. Surcharge Pricing:
4. Special Testing Requirements:
5. Treatment and Handling Protocol:
Buk to class 2 by
6. Treated Wastewater Discharge Subcategory:
o. Heateu wastewater Distriarge Subtategory.
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



_	7. Tests for Product Recovered/Recycled (if applicable):
ſ	
l	
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L	
1	3. Management for Product Recovered/Recycled (if applicable)
[	3. Management for Product Recovered/Recycled (if applicable)
	3. Management for Product Recovered/Recycled (if applicable)
	3. Management for Product Recovered/Recycled (if applicable)
	3. Management for Product Recovered/Recycled (if applicable)







# **Material Safety Data Sheet**

NFPA	HMIS	Personal Protective Equipment		
200	Health Hazard 2			
	Reactivity	See Section 15.		

Section 1. Chem	Page Number: 1		
Common Name/ Trade Name	Sodium tungstate dihydrate	Catalog Number(s).	S1515, S1516
		CAS#	10213-10-2
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.	RTECS	YO790000
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSCA	TSCA 8(b) inventory: No products were found.
Commercial Name(s)	Not available.	CI#	Not available.
Synonym	Tungstic Acid, sodium salt, dihydrate	IN CASE OF	PAREDORNOV
Chemical Name	Sodium Tungstate dihydrate		EMERGENCY C (24hr) 800-424-9300
Chemical Family	Not available.	CALL (310) 5	16-8000
Chemical Formula	Na2WO4.2H2O		
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248		

Name  1) Sodium tungstate dihydrate		CAS#	TWA (mg/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weight
		10213-10-2				100

Section 3. Hazards ld	lentification	
Potential Acute Health Effects	Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.	
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Not available.  MUTAGENIC EFFECTS: Not available.  TERATOGENIC EFFECTS: Not available.  DEVELOPMENTAL TOXICITY: Not available.  Repeated or prolonged exposure is not known to aggravate medical condition.	

# Continued on Next Page

Sodium tungstate di	hydrate Page Number: 2				
Section 4. First Aid Measures					
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for a least 15 minutes. Cold water may be used. Get medical attention.				
Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.				
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medica attention.				
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Ge medical attention.				
Serious Inhalation	Not available.				
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.				
Serious Ingestion	Not available.				
Section 5. Fire and E	xplosion Data				
Flammability of the Product	Non-flammable.				
Auto-Ignition Temperature	Not applicable.				
Flash Points	Not applicable.				
Flammable Limits	Not applicable.				
<b>Products of Combustion</b>	Not available.				
Fire Hazards in Presence of Various Substances	Not applicable.				
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available.  Risks of explosion of the product in presence of static discharge: Not available.				
Fire Fighting Media and Instructions	Not applicable.				
Special Remarks on Fire Hazards	Not available.				
Special Remarks on Explosion Hazards	Not available.				
Section 6. Accidental	Release Measures				
Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.				
Large Spill	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.				

# Continued on Next Page

Sodium tungstate dil	nydrate		Page Number: 3			
Section 7. Handling a	nd Storage					
	Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents.					
	Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 25°C (77°F).					
Section 8. Exposure 0	Controls/Personal Protection					
Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.					
Personal Protection			use an approved/certified respirator or equivale			
ı Large Spill	Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.					
Exposure Limits	TWA: 5 STEL: 10 (mg(W)/m³) from ACGIH (	TLV) [United S	States]			
	Consult local authorities for acceptable exposu	re limits.				
Section 9. Physical ar	nd Chemical Properties					
Physical state and appearance	Solid.	Odor	Not available.			
Molecular Weight	329.86 g/mole	Taste	Not available.			
	Not available.	Color	Not available.			
,	Not available.					
	692.22°C (1278°F)					
	Not available.	<del> </del>				
	3.25 - 4.15(Water = 1)					
Vapor Pressure	Not applicable.					
/apor Density	Not available.					
/olatility	Not available.					
Odor Threshold	Not available.					
Vater/Oil Dist. Coeff.	Not available.					
onicity (in Water)	Not available.					
Dispersion Properties	See solubility in water.					
•	Easily soluble in cold water. Insoluble in alcohol. It is soluble in about 1.1 parts of water					
Section 10. Stability a	nd Reactivity Data					
Stability	The product is stable.					
nstability Temperature	Not available.					
Conditions of Instability	Incompatible materials	· —				
ncompatibility with various	Reactive with oxidizing agents.					

Sodium tungstate dihydrate		Page Number: 4		
Corrosivity	Non-corrosive in presence of glass.			
Special Remarks on Reactivity	Not available.			
Special Remarks on Corrosivity	Not available.			
Polymerization	Will not occur.			

Section 11. Toxicolo	ogical Information
Routes of Entry	Inhalation. Ingestion.
Toxicity to Animals	LD50: Not available. LC50: Not available.
Chronic Effects on Humans	Not available.
Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant), of ingestion, of inhalation.
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	May affect genetic material.  May cause adverse reproductive effects based on animal data. Animal studies showed post-implantation mortality effects on fertility.
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: May cause skin irritation. Eyes: May cause eye irritation. Inhalation: May cause respiratory tract irritation. Ingestion: May cause gastrointestinal tract irritation with hypermotility and diarrhea. It may affect behavior/nervous system(somnolence, excitement, muscle weakness, convulsions, ataxia), cardiovascular system, respiration (respiratory depression), and blood.

Section 12. Ecological Information					
Ecotoxicity	Not available.				
BOD5 and COD	Not available.				
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.				
Toxicity of the Products of Biodegradation	The product itself and its products of degradation are not toxic.				
Special Remarks on the Products of Biodegradation	Not available.				

Section 13. Dis	n 13. Disposal Considerations				
Waste Disposal	Waste must be disposed of in accordance with federal, state and local environmental control regulations.				

# Continued on Next Page

Sodium tungstate	dihydrate					Page Number: 5
Section 14. Transp	ort Information					
DOT Classification	Not a DOT controlled	material (U	nited States).			And a regional state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the sta
Identification	Not applicable.					
Special Provisions for Transport	Not applicable.	•				
DOT (Pictograms)						
Section 15. Other R		<u> </u>	Pictograms			
Federal and State Regulations	No products were fo	und.				
Cantorma Proposition 65 Warnings						
Other Regulations	Not available.					
Other Classifications	WHMIS (Canada)	Not contr	rolled under WHMIS (Canada	).		
	DSCL (EEC)	R36/38- li	rritating to eyes and skin.	S46- If s		ch of children. medical advice his container or label.
HMIS (U.S.A.)	Health Hazard  Fire Hazard  Reactivity  Personal Protection	(2) 0 0 (E)	National Fire Protectio Association (U.S.A.)	N Health	2 0	Flammability  Reactivity  Specific hazard
WHMIS (Canada) (Pictograms)						
DSCL (Europe) (Pictograms)			10 10 10 10 10 10 10 10 10 10 10 10 10 1			
TDG (Canada) (Pictograms)						
ADR (Europe) (Pictograms)						
Protective Equipment		<del></del>				
Continued on Nex	t Dogo			Fuggi, sa que		

# Sodium tungstate dihydrate



Gloves.



Lab coat.



Dust respirator. Be sure to use an approved/certified respirator or equivalent.



Splash goggles.

# Section 16. Other Information

MSDS Code \$4610

References Not available.

Other Special Considerations

Not available.

Validated by Sonia Owen on 8/11/2006.

Verified by Sonia Owen.

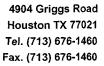
Printed 9/14/2006.

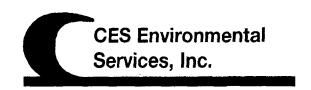
CALL (310) 516-8000

# Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.

Page Number: 6





# Waste Pre-Acceptance/Approval Letter

Date 7/27/2009

Dear Ronald Smith

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3436

**Expiration Date** 7/27/2011

Generator: ZaCh System Corp. (La Porte)

Address: 914 South 16th Street

La Porte, TX 77571

Waste Information

Name of Waste: Non Hazardous Class I Solids

**TCEQ** Waste Code #: 00324091

Container Type:

**Detailed Description of Process Generating Waste:** 

Unused Product / Out of Date

Color: Various

**Odor:** None to acid

**pH**: 4-9

**Physical State:** 

Incompatibilities: See MSDS

Safety Related Data/Special Handling:

Level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



#3436

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

07/22/2009 14:35

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900 JR/AN

Howthe

SECTION 1: Generator Information														
Company: ZaCh System Corp. (La Porte)														
Address:	914 South 16th Street 914 South 16th Street													
City, State, Zip: La Porte TX 77571														
Contact :	Ronald Smit	h						Title:	_	EHS.	MAN	465 R		
Phone No:	(281) 842-02	201						Fax:	(2	81) 867-	1734			
24 / HR Phone:								_						
U.S EPA I.D No:	TXR000079	062												
State I.D :	88429			automotiva meta Vapaga (				SIC Co	ode _					
SECTION 2: Billing	Information													
Company:	ZaCh Syster	n Corp.	(La Por	te)										
Address:	914 South 1	6th Stree	et 914	South 1	6th Str	eet								
City, State, Zip :	La Porte TX	77571												
Contact:	Ronald Smit	h						Title :		_				
Phone No:	(281) 842-02	201						Fax:	(2	81) 867-	1734			
SECTION 3: General	al Description	of the W	aste											
Name of Waste:				ids										
Detailed Descript												~		
unused products			Jenera	ung w	<b>45</b> 16.									
unusea products/	<i>J</i> 4	ADDIC.												
Physical State:	Liqui	d		j Slu	dge		E Po	wder						
	<b>⊘</b> Solid	ł		Filt	er Cake		Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co     Co	mbinatio	n					
Color:				aries		Od	or:				nor	ie to aci	rid	
Specific Gravity (	Water=1) :			>1.2		Dei	nsity:				10		(	bs / gal
Does this material contain any total phenolic compounds? Yes V No														
Does this material	contain any pa	ara subsi	ituted p	henolic	compo	unds?		Yes		<b>✓</b> No				
is the Waste subject	t to the benze	ne waste	operat	ion NE	SHAP? (	40 CFR F	Part 61,	Subpart	FF)		Yes	V	No	
		2821	2822	2823	2824	2833	2834	2835	2836	2841	2842	2843	2844	2851
2812 2813 7	816 2819												4050	9511
	2816 2819 2869 2873	2874	2876	2879	2891	2892	2893	2896	2899	2911	3312	4953	4959	
		2874	2876		2891 Iti-Phas		2893	2896	2899	2911	3312	4953	4939	
2861 2865 2	2869 2873	2874 le-Phas					2893				3312	4953	4959	an and desire a second
2861 2865 2 Layers :	2869 2873	2874 I <b>e-Pha</b> s n <u>®</u>		<u></u> Mu	Iti-Phas	se					3312	4953	4959	and such during the sufficient of the such during the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient of the sufficient o
2861 2865 2 Layers : Container Type :	2869 2873  Sing  Drun  5/55 ga	2874 I <b>e-Pha</b> s n <u>®</u>		<u></u> Mu	Iti-Phas	se					3312	4953	4959	
2861 2865 2 Layers: Container Type: Container Size: Number Of Units Is this a USEPA "I	2869 2873  ✓ Sing  ✓ Drun  5/55 gz  : 64	2874 le-Phas n al	T r 40 CF	∰ Mu ote R 261.3	Iti-Phas	se Truck	∰ Yes	Other ( ☑ N	(expla	in)	3312	4953	4939	
2861 2865 2 Layers: Container Type: Container Size: Number Of Units	2869 2873  ✓ Sing  ✓ Drun  5/55 gz  : 64	2874 le-Phas n al	T r 40 CF	∰ Mu ote R 261.3	Iti-Phas	se Truck	∰ Yes	Other ( ☑ N	(expla	in)	3312	4953	4939	

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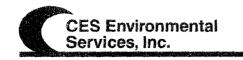
Characteristic for Toxic M	etals: 🗍 D004	D005	D006		007		
	D008	☐ D009	☐ D010	D(	011		
Characteristics for Toxic (	Organics: D012 thru	D043 (please	list all that a	pply)		<i></i>	_
Is this an "F" or "K" Listed	l waste or mixed w	th one?	Yes 💽	No			
If "Yes", then please li	st ALL applicable co	des:					]
Is this a commercial produ 261.33(e) or (f)?	uct or spill cleanup t	that would care	ry a "U" or "F	o" waste	code under 40 CFR	Yes 🗹 No	
If "Yes", then please li	ist ALL applicable co	odes:					
Texas State Waste Code	No: 0032	4091					
Proper U.S. State Waste (	Code No :		Non-RCRA	VNon D	OT regulated waste solids		
Class: na	UN/NA:	na		PG :	na	RQ: na	
Flash Point	рН	Rea	ctive Sulfide	es .	Reactive Cyanides	Solids	-
>200	4-9	. ]	0	mg/l	0 mg/l	100 %	
Oil and Grease	тос		Zinc		Copper	Nickel	•
namg/l	na	mg/l	na	mg/l	namg/l	na mg	1
SECTION 4: Physical and Ch	omical Data				•		
SEGNON 4. 7 Hysical and On	COMPONENTS	TABLE			(Goncentral)	on Units	
The material / p	product consists of	f the following	materials		Ranges are acce	PENNSON GROWN CONTRACTOR AND ADDRESS OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON OF THE PENNSON	
	Piredone L-cyclehe	HCI	ne		0-100	%	
	Z-Leyclo				0-100 0-100	% %	
	Loutrare			ydre	-0.100	· %	
		<u> </u>					
SECTION 5: Safety Related D	Jata						
f the handling of this was		— e of special pr	otective equ	ulpment	t, please explain.		
evel D PPE	•		•				
SECTION 6: Attached Suppor	<del></del>						
List all documents, notes, MSDS Sheets	, data, and/or analy	sis attached t	lo this form	as part	of the waste approval p	ackage.	
SECTION 7: Incompatibilities	,						
Please list all incompatibi	ilities (if any):						
ee MSDS sheets							
SECTION 8: Generator's Kno aboratory analysis of the			e licted hal	low MA	AS NOT DEDECIDATED ba	sad unan tha	
ollowing generators know		Characteristic	,s, listeu bei	OW, WA	43 NOT FERFORIALD DA	sed upon the	
CLP Metals :	<u>x</u>						
CLP Volatilies :	<u>x</u>						
CLP Semi-Volatiles :	<u>x</u>						
Reactivity :	<u>x</u>						
			2				

Corre	osivity: X
Ignita	ability: <u>x</u>
SECT	ION 9: Waste Receipt Classification Under 40 CFR 437
	s material a wastewater or wastewater sludge ?   YES  NO
15 (11)	s litaterial a wastewater of wastewater sludge ! [] 1ES [] NO
If YE	S', complete this section
PLEA	SE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE
Matal	ls Subcategory: Subpart A
	Spent electroplating baths and/or sludges
	Metal finishing rinse water and sludges
	Chromate wastes
	Air pollution control blow down water and sludges
	Spent anodizing solutions
	Incineration wastewaters
	Waste liquid mercury
	Cyanide-containing wastes greater than 136 mg/l
	Waste acids and bases with or without metals
	Cleaning, rinsing, and surface preparation solutions from electroplating or phosph
	Vibratory deburring wastewater
	Alkaline and acid solutions used to clean metal parts or equipment
Oils S	Subcategory: Subpart B
	Used oils
Ш	Oil-water emulsions or mixtures
	Lubricants
	Coolants
	Contaminated groundwater clean-up from petroleum sources
	Used petroleum products
	Oil spill clean-up
	Bilge water
	Rinse/wash waters from petroleum sources
	Interceptor wastes
	Off-specification fuels
	Underground storage remediation wastes
	Tank clean-out from petroleum or oily sources
	Non-contact used glycols
	Aqueous and oil mixtures from parts cleaning operations
	Wastewater from oil bearing paint washes
Organ	nics Subcategory Subpart C
	Landfill leachate
	Contaminated groundwater clean-up from non-petroleum sources
	Solvent-bering wastes
	Off-specification organic product
	Still bottoms
	Byproduct waste glycol
	Wastewater from paint washes
	Wastewater from adhesive and/or epoxies formulation
	Wastewater from organic chemical product operations

	Tank clean-out from organic, non-petroleum sources
(1)	if the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory
(2)	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory
	Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L
(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.
	☐ Metals Subcategory
	☐ Oils Subcategory
	☐ Organics Subcategory
SE	CTION 10: Additional Instruction
Chi	ou cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, romium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these ocentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.
SEC	CTION 11: Generator's Certification
abo del	e information contained herein is based on generator knowledge and/or analytical data. I hereby cerity that the over and attached description is complete and accurate to the best of my knowledge and ability to determine that no liberate or willful omissions of composition properties exist and that all known or suspected hazards have been closed. I certify that the materials tested are representative of all materials described by this document.
Au	thorized Signature: Rough Such Date: 7-21-09
Pri	nted Name / Title: KUNALD Smith / EHS Manager
CE	ES USE ONLY (DO NOT WRITE IN THIS SPACE)  Process Facility Information:
Co	empliance Officer: Labin Elya
Da	ste: 7-27-09 Status: Approved Rejected
Аp	proval Number: 3436



1. Base Pricing (including freight):
Call Joy for pricing into.
2. Contamination Limit (maximum limit before surchages apply):
3. Surcharge Pricing:
4. Special Testing Requirements:
5. Treatment and Handling Protocol:
BIK to Class 1 box
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



7. Tests for Product Recovered/Recycle	ed (if applicable):	
8. Management for Product Recovered,	/Recycled (if applicable)	

# **Material Safety Data Sheet**

acc. to OSHA and ANSI

Printing date 07/14/2003

Reviewed on 03/24/2003

- 1 <u>Identification of substance:</u>
  - ♦ Product details:
  - ◆ Product name: 4-Piperidone hydrochloride monohydrate

    Piredone HCL

♦ Stock number: A13726

♦ Manufacturer/Supplier:

Alfa Aesar, A Johnson Matthey Company Johnson Matthey Catalog Company, Inc. 30 Bond Street

Ward Hill, MA 01835-8099

Emergency Phone: (978) 521-6300

CHEMTREC: (800) 424-9300 Web Site: www.alfa.com

- ◆ Information Department: Health, Safety and Environmental Department
- ◆ Emergency information:

During normal hours the Health, Safety and Environmental Department.

After normal hours call Chemtrec at (800) 424-9300.

- 2 <u>Composition/Data on components:</u>
  - ♦ Chemical characterization:

Description: (CAS#)

Material Safety Data Sheet

4-Piperidone hydrochloride monohydrate (CAS# 40064-34-4); 100%

- ♦ Identification number(s):
- **♦ EINECS Number:** 254-779-9
- 3 Hazards identification
  - ♦ Hazard description: · Not applicable
  - ♦ Information pertaining to particular dangers for man and environment

Not applicable

- ♦ Classification system
- ♦ HMIS ratings (scale 0-4)

(Hazardous Materials Identification System)

Health (acute effects) = 1

Flammability = 1

Reactivity = 1

# • 4 First aid measures

♦ After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm.

Seek immediate medical advice.

♦ After skin contact

Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.

♦ After eye contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

♦ After swallowing Seek medical treatment.

#### 5 Fire fighting measures

♦ Suitable extinguishing agents

Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

♦ Special hazards caused by the material, its products of combustion or

# resulting gases:

In case of fire, the following can be released: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Hydrogen chloride (HCl)

◆ Protective equipment:

Wear self-contained respirator. Wear fully protective impervious suit.

# 6 Accidental release measures

♦ Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

♦ Measures for environmental protection:

Do not allow material to be released to the environment without proper governmental permits.

- ◆ Measures for cleaning/collecting: Pick up mechanically.
- ♦ Additional information:

See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

- 7 <u>Handling and storage</u>
  - ♦ Handling

♦ Information for safe handling:

Keep container tightly sealed. Store in cool, dry place in tightly closed containers. No special precautions are necessary if used correctly.

♦ Information about protection against explosions and fires:

No information known.

- ♦ Storage
- ♦ Requirements to be met by storerooms and receptacles:

No special requirements.

♦ Information about storage in one common storage facility:

Store away from oxidizing agents.

♦ Further information about storage conditions:

Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.

- 8 Exposure controls and personal protection
  - ♦ Additional information about design of technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Components with limit values that require monitoring at the workplace:

Not required.

- ◆ Additional information: No data
- ♦ Personal protective equipment
- ♦ General protective and hygienic measures

4

#### A13726 - 4-Piperidone hydrochloride monohydrate

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

♦ Breathing equipment:

Use suitable respirator when high concentrations are present.

- ♦ Protection of hands: Impervious gloves
- ♦ Eye protection: Safety glasses
- ◆ Body protection: Protective work clothing.
- 9 Physical and chemical properties:
  - ♦ General Information
  - ◆ Form: Crystalline
  - ♦ Color: Beige
  - ♦ Odor: Not determined
  - ♦ <u>Value/Range Unit</u>
    <u>Method</u>
  - ♦ Change in condition
  - ♦ Melting point/Melting range: 94-96 ° C
  - ♦ Boiling point/Boiling range: Not determined
  - ◆ Sublimation temperature / start: Not determined
  - ♦ Flash point: Not applicable

Material Safety Data Sheet

## A13726 - 4-Piperidone hydrochloride monohydrate

Product is not flammable.

	◆ Flammability (solid, gaseous)	Product is not flammable.
	◆ Ignition temperature:	Not determined
	◆ Decomposition temperature:	Not determined
	◆ Danger of explosion:	
	Product does not present an explos  • Explosion limits:	ion hazard.
	♦ Lower:	Not determined
	♦ Upper:	Not determined
	♦ Vapor pressure:	Not determined
	♦ Density:	Not determined
	◆ Solubility in / Miscibility with	
	♦ Water:	Not determined
• 10	Stability and reactivity	ha ha amai 3-3
	◆ Thermal decomposition / conditions	
	Decomposition will not occur if us specifications.  • Materials to be avoided: Oxidizing	

- ♦ Dangerous reactions No dangerous reactions known
- ♦ Dangerous products of decomposition:

Carbon monoxide and carbon dioxide Nitrogen oxides Hydrogen chloride (HCl)

- 11 Toxicological information
  - ♦ Acute toxicity:
  - ♦ Primary irritant effect:
  - ♦ on the skin: May cause irritation
  - ♦ on the eye: May cause irritation
  - ◆ Sensitization: No sensitizing effects known.
  - ♦ Subacute to chronic toxicity:

Other than potential irritation (see above), no information on illness or injury to humans from acute or chronic exposure to this product is available.

♦ Additional toxicological information:

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

- 12 <u>Ecological information:</u>
  - ♦ General notes:

Do not allow material to be released to the environment without proper governmental permits.

Material Safety Data Sheet

A13726 - 4-Piperidone hydrochloride monohydrate	
• 13 <u>Disposal considerations</u>	
♦ Product:	
♦ Recommendation	
Consult state, local or national regulations to ensure prop disposal.	er
♦ Uncleaned packagings:	
◆ Recommendation:	
Disposal must be made according to official regulations.	
• 14 Transport information	
Not a hazardous material for transportation.	
♦ DOT regulations:	
♦ Hazard class: None	
◆ Land transport ADR/RID (cross-border)	
♦ ADR/RID class: None	
◆ Maritime transport IMDG:	
◆ IMDG Class: None	
♦ Air transport ICAO-TI and IATA-DGR:	

♦ ICAO/IATA Class: None

#### ♦ Transport/Additional information:

Not dangerous according to the above specifications.

#### • 15 Regulations

#### ♦ Product related hazard informations:

Observe the general safety regulations when handling chemicals

#### ♦ National regulations

This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only.

♦ Information about limitation of use:

For use only by technically qualified individuals.

#### • 16 Other information:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

- ◆ Department issuing MSDS: Health, Safety and Environmental Department.
- ♦ Contact: Darrell R. Sanders

## MATERIAL SAFETY DATA SHEET



07-20-2004

1- PRODUCT &	& COMPANY INFORMATION	
Product Name	L-Cyclohexylglycine	NH ₂
Catalog Number	CY-1432	СООН
Company	OmegaChem inc. 8800 boul. De la Rive Sud Levis (Quebec) Canada G6V 9H1 Tel. (418) 837-4444	
27	Fax (418)837-5196 info@omegachem.com www.omegachem.com	Omega Chem

2 - COMPOSITION / INGREDIENTS		
Substance Name L-(+)-Cyclohexylglyc	ine	
(S)-(+)-alpha-Aminoc	<ul> <li>Contract view in the contraction of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of the contract view of view of the contract view of the contract view of view of the contract view of view of view of view of view of view of view of v</li></ul>	eur o dell'es fillesco destina ele estore et filesco. Nesce serces filles se se sell'es filesco.
CAS Number	SARA 313	Formula
14328-51-9	no	$C_8H_{15}NO_2$

### 3 – HAZARDS IDENTIFICATION

HMIS RATING HEALTH: 0

FLAMMABILITY: 0 REACTIVITY: 0

NFPA RATING HEALTH: 0

FLAMMABILITY: 0 REACTIVITY: 0

See section 11 for additional information on toxicity.

4 – FIRST AID	
Oral exposure	If swallowed, wash mouth with water, provided the person is conscious and call a
	physician.
Inhalation exposure	Remove the person to fresh air. If not breathing give artificial respiration. If breathing is
	difficult, give oxygen.
Dermal exposure	Immediately wash skin with soap and large amounts of water.
Eye exposure	Flush eyes with large amounts of water for at least 15 minutes.

5 - FIRE FIGHTING MEASURES Flash point Autoignition temperature Flammability			
N/A	<u> </u>	N/A	
Extinguishing media Firefighting	Water spray; carbon dioxide; dry chemical powder Protective equipment:	•	
	Wear self-contained breathing apparatus and prot skin and eyes.	tective clothing to prevent contact with	
	Specific hazard(s): Emits toxic fumes under fire conditions.		

6 - ACCIDENTAL	RELEASE MEASURES
Personal precautions	Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent
	inhalation of dust.
Cleaning up	Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area
	and wash spill site after material pickup is complete.

7 – HANDLING AN	D STORAGE
Handling	Avoid inhalation, contact with eyes, skin and clothing.
C. 1	Avoid prolonged or repeated exposure.
Storage	Suitable: Keep tightly closed.

8 – EXPOSURE C	
Engineering controls	Safety shower and eye bath.
	Mechanical exhaust required.
Personal protective	Respiratory: Wear dust mask.
equipment	Hand: Rubber gloves.
	Eye: Chemical safety goggles.
General hygiene	Wash thoroughly after handling.
measures	

9 - PHYSICAL / CHE	MICAL PROPERTIES		
Appearance	Solid; white		
Molecular Weight	157.21	Evaporation rate	N/A
PΗ	N/A	Viscosity	N/A
Boiling point (°C)	N/A	-Surface tension	N/A
Melting point (°C)	N/A	Partition coefficient	N/A
Freezing point (°C)	N/A	Decomposition temp. (°C)	307.5°C
Vapor pressure	N/A	Flash point	N/A
Vapor density	N/A	Explosion limits	N/A
Saturated Vapor Conc.	N/A	Flammability	N/A
SG / Density	N/A	Autoignition temp. (°C)	N/A
Odor threshold	N/A	Refractive index	N/A
Volatile %	N/A	Optical rotation	+28° (c=0.5, 1N HCl)
VOC content	N/A	Solubility	N/A
Water content	N/A	Miscellaneous	
Solvent content	N/A	N/A = not	available

10 - STABILITY AND REACTIVITY			
Stability <u>Materials to Avoid:</u> Strong oxidizing agents.			
Hazardous Carbon monoxide			
decomposition Carbon dioxide			
products Nitrogen oxides	<del></del>	·	

	AL INFORMATION
Route of exposure	
Skin contact	May cause skin irritation.
Skin absorption	May be harmful if absorbed through the skin
Eye	May cause eye irritation.

OmegaChem Inc.

CY-1432

Inhalation	May be harmful if inhaled. May be irritating to mucous membranes and upper respiratory
	tract.
Ingestion	May be harmful if swallowed.
Signs and symptoms of	To the best of our knowledge, the chemical, physical, and
exposure	toxicological properties have not been thoroughly investigated.

#### 12 – ECOLOGICAL INFORMATION

13 – DISPOSAL CON	NSIDERATIONS
Appropriate method [	Dissolve or mix the material with a combustible solvent and burn in a chemical
of disposal of i	ncinerator equipped with an afterburner and scrubber.
substance or preparation (	Observe all federal, state and local environmental regulations.

14 - TRANSPORT	NFORMATION	
DOT	Proper Shipping Name: None	
	Non-Hazardous for Transport: This substance is	
	considered to be non-hazardous for transport.	
IATA	Non-Hazardous for Air Transport: Non-hazardous for air	
	transport.	

15 - REGULATOR	RY INFORMATION
EU	
USA	SARA LISTED: No
Canada	WHMIS Classification: This product has been classified in
	accordance with the hazard criteria of the CPR, and the MSDS
4. St. 3.	contains all the information required by the CPR.
	DSL: No
	NDSL: No

#### 16 – OTHER INFORMATION

The product is to be used for R&D only. Not for drug, household or other uses.

The above information is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety measures. It is believed to be correct but does not purport to be inclusive and shall be used only as a guide.

OmegaChem Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

OmegaChem Inc.

CY-1432



### MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION
PRODUCT NAME: Z-L-Cyclohexylglycine
PRODUCT ID: 01273
SYNONYMS: Z-CHG; N-(Carbobenzyloxy)-L-Cyclohexylglycine; CBZ-
LCyclohexylglycine; C16H21NO4
ISSUE DATE: 6/26/2008
EDITION NO.: 1
ISSUE DATE: 6/26/2008

ZaCh System Corporation.
914 So. 16th Street, La Porte, Texas, USA
24-hour Emergency Telephone Number: 1-281-842-0245
For Product Safety Information (8am-5pm Central time):
1-281-842-0201

PREPARER: EHS Group

#### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Material/CAS Number	Percent		
Z-L-Cyclohexyl Glycine 69901-75-3	>99		
Undefined impurities NONE	<1		
	3	HAZARDS IDENTIFICATION	

#### EMERGENCY OVERVIEW:

CAUTION! May cause irritation to eyes and skin. Dust may cause irritation of nasal and upper respiratory tract. May be harmful if inhaled. May be harmful if swallowed.

**Precautions:** Do not get in eyes, on skin, or on clothing. Extremely sensitive to moisture – Material should only be handled in a moisture-free environment. Unused material must be stored under dry nitrogen. Do not inhale. Dust may cause irritation of nasal and respiratory tract. Use only with adequate ventilation. Ventilation must be sufficient to minimize employee exposure in the work area. Use appropriate personal protective clothing and respiratory protection. Do not swallow. Remove and contaminated clothing before reuse. Wash thoroughly every day after work. Do not eat, drink, or smoke in work area. The fine dust contained in this product is capable of creating dust explosions.

#### 4. FIRST AID MEASURES

**INHALATION:** Remove from area to fresh air. If symptomatic, contact a poison control center, emergency room or physician for treatment information.

**EYE/SKIN CONTACT:** EYE: Remove contact lens and pour a gentle stream of warm water through the affected eye for at least 15 minutes. If irritation persists, contact a poison control center, emergency room, or physician as further treatment may be necessary. SKIN: Run a gentle stream of water over the affected area for 15 minutes. A mild soap may be used if available. If any symptoms persist, contact a poison control center, emergency room, or physician as further treatment may be necessary.

**INGESTION:** Gently wipe or rinse the inside of the mouth with water. Sips of water may be given. Never give anything by mouth to an unconscious person. Contact a poison control center, emergency room or physician right away as further treatment may be necessary.

#### 5. FIRE FIGHTING MEASURES

FLASH POINT: Not applicable

**EXTINGUISHING MEDIA:** Water spray, carbon dioxide, dry chemical powder or appropriate foam.

**SPECIAL FIREFIGHTING PROCEDURES:** Dust/air mixtures may ignite or explode. Emits toxic fumes under fire conditions. Fire-fighters must wear NIOSH approved pressure demand, selfcontained breathing apparatus and full protective clothing when fighting chemical fires.

#### 6. ACCIDENTAL RELEASE MEASURES

#### ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Avoid generating dust. Dust may cause an explosion hazard. Provide maximum ventilation. Wear proper protective equipment. Sweep or gather up material and place in proper container for disposal or recovery.

#### 7. HANDLING AND STORAGE

#### PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORAGE:

Store in a cool, dry, well-ventilated place. Store only in closed, properly labeled containers. Keep container closed when not in use. Do not use in poorly ventilated or confined spaces without proper respiratory protection. The fine dust contained in this product is capable of creating dust explosions. When handling this product in large quantities, the guidelines established in NFPA 654, Prevention of Dust Explosions, should be followed.

#### 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

**Exposure Limits:** 

8-hour Time Weighted Average (TWA); 15 -minute Short-Term Exposure Limit (STEL)

**OSHA:** No occupational exposure limits have been established by OSHA for this product.

**ACGIH:** No occupational exposure limits have been established by ACGIH for this product.

**ONTARIO:** No occupational exposure limits have been established by Ontario for this product.

**RESPIRATORY PROTECTION:** If use or application of this product generates dust, use an appropriate NIOSH-approved particulate filter respirator. The respirator use limitations made by NIOSH and by the manufacturer must be observed.

**VENTILATION:** Use local exhaust or general room/dilution ventilation as appropriate to control employee exposures in the work place.

**EYE AND FACE PROTECTION:** Standard safety glasses with side shields.

PROTECTIVE GLOVES: Impervious gloves. Rubber.

**OTHER PROTECTIVE EQUIPMENT:** Boots, aprons, or chemical suits should be used when necessary to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES				
BOILING POINT:	NA			
VAPOR DENSITY (Air=1):	NA			
SPECIFIC GRAVITY (Water=1):	NA			
pH:	Neutral			
FREEZING/ MELTING POINT:	NA			
SOLUBILITY (wt.% in water):	NA			
BULK DENSITY:	NA			
VOLUME % VOLATILE:	NA			
VAPOR PRESSURE:	NA			
EVAPOTATION RATE:	NA			
HEAT OF SOLUTION:	NA			
PHYSICAL STATE:				
ODOR:	None			
COLOR:	White			
10 STAR	II ITV AND REACTIVITY			

**Stability:** Stable at room temperature.

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITY (CONDITIONS/MATERIALS TO AVOID):

Strong acids. Strong bases. Strong oxidizers.

HAZARDOUS THERMAL DECOMPOSITION/COMBUSTION PRODUCTS:

Oxides of carbon. Oxides of nitrogen.

#### 11. TOXICOLOGICAL INFORMATION

**CARCINOGENICITY STATUS:** This product is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, ACGIH, or OSHA.

MEDICAL CONDITIONS AGGRAVATED: None known.

#### **EFFECTS OF OVEREXPOSURE:**

ACUTE:

Eye/Skin: Eye or skin contact may cause irritation. Inhalation: Breathing dust can irritate the upper respiratory tract including the eyes, nose, and throat. Ingestion: Although ingestion of this product is not likely to occur in industrial applications, accidental ingestion may cause illness or irritation of the mouth and gastrointestinal tract.

CHRONIC: The effects of long-term, low level exposures to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the prevention of all contact with this material to avoid any effects from repetitive acute exposures.

#### 12. ECOLOGICAL INFORMATION

#### ECOTOXICOLOGICAL INFORMATION:

No data at this time.

#### **ENVIRONMENTAL FATE:**

No data at this time.

#### 13. DISPOSAL CONSIDERATIONS

#### **DISPOSAL METHOD:**

Waste material must be disposed of in accordance with federal, state, provincial, and local environmental control regulations. Empty containers should be recycled or disposed of through an approved waste management facility.

#### 14. TRANSPORT INFORMATION

**Proper Shipping Name:** 

Not regulated

#### 15. REGULATORY INFORMATION

**USA TSCA:** A component in this product is not listed on the TSCA inventory. This product can only be used in R&D (by a technically qualified individual) or FDA regulated applications.

**EU EINECS:** A component in this product is not listed on EINECS. This product can only be used in R&D applications.

**CANADA DOMESTIC SUBSTANCES LIST (DSL):** A component in this product is not listed on the Canadian DSL. This product can only be used in R&D applications.

**AUSTRALIA AICS:** A component in this product is not listed on AICS. This product can only be used in R&D applications.

KOREA ECL: One or more components in this product are not listed on the Korean Existing

Chemicals Inventory (KECI). This product can only be used in R&D applications.

**JAPAN MITI (ENCS):** One or more components in this product are not listed on the Japanese Existing and New Chemical Subtances (ENCS) chemical inventory. This product can only be used in R&D applications.

**PHILIPPINES PICCS:** One or more components in this product are not listed on the Phillipines Inventory of Chemical and Chemical Substances (PICCS). This product can only be used in R&D applications.

**CHINA IECSC:** A component in this product is not listed on the Inventory of Existing Chemical Substances in China (IECSC). This product can only be used in China with an appropriate exemption permit.

**SARA TITLE III:** 

SARA (311, 312) Hazard Class:

Acute Health Hazard.

SARA (313) Chemicals:

Not listed.

**SARA Extremely Hazardous Substance:** 

Not listed.

**CERCLA Hazardous Substance:** 

Not listed.

CANADA REGULATIONS (WHMIS): NON-CONTROLLED

#### 16. OTHER INFORMATION

NA = Not Available

Ethyl Corp 12/09

## **POLLUTION CONTROL INDUSTRIES**



4343 KENNEDY AVE; EAST CHICAGO, IN 46312 Ph: 800-388-7242 / Fx: 219-397-6411 5485 VICTORY LANE; MILLINGTON, TN 38053 Ph: 888-724-8366 / Fx: 901-353-9471

Cuct.#829851

## POLLUTION CONTROL INDUSTRIES WASTE STREAM RECERTIFICATION

All waste streams not received by Pollution Control Industries for longer than one year are considered inactive and must recertified before shipment.

WASTE STREAM NUMBER, 3242101	0 CLIRRE	NT PROCESS CODE	NS
Original Approval Date 10000	Last Shipped		51
apparator DVV LET VICED	Billing Name		
Address 1100 Wayne Dive	Billing Add	01-4-	
city Angleton State 1X	City Phone:	State	
Phone:	rnone.		<del>-</del>
Please Check the Appropriate  ****ALL PROFILES WITH ORIGINAL APPROVAL DATE INCLUDED WITH RECERT FORM.	PRIOR TO FEBRUAR	RY 1, 2003 MUST HAVE COM	PLETED PROFILE
****ALL PROFILES THAT HAVE HAD CHANGES TO PR COMPLETED PROFILE WITH RECERTIFICATION FOR	ROCESS GENERATIN M	G OR WASTE CHARACTERIZ	ATIONS MUST HAVE
<ol> <li>Has the waste stream change since the origin physical or chemical characteristics, or RCI</li> </ol>	nal approval???( RA or DOT charac	Changes can include: Pro terization)	cess generating.
<ol><li>Was the original approval date prior to Februa</li></ol>	ary 1, 2003?		Yes <u>X</u> No
If the answer was 'Yes' to EITHER questions waste stream profile with this recertification	1 or 2 then please statement	e forward current copy of	the waste
If the answer was 'No' to BOTH questions 1 a I certify this waste and it's process generating properties have remained unchanged since	<ol> <li>RCRA and DOT</li> </ol>	classification, and chemic	cal and physical YesNo
I hereby certify that the above and attached description is that have occurred to this waste stream have been disclose omissions of composition or properties exist and that all k	ed and a copy of the ci	irrent profile provided. No deli	nd ability. Any changes berate or willful
Name (Print):		Title:	
Authorized Signature:	· · · · · · · · · · · · · · · · · · ·	Date:	

### **POLLUTION CONTROL INDUSTRIES**



4343 KENNEDY AVE; EAST CHICAGO, IN 46312 Ph: 800-388-7242 / Fx: 219-397-6411 5485 VICTORY LANE; MILLINGTON, TN 38053 Ph: 888-724-8366 / Fx: 901-353-9471

Cuct.#829851

#### POLLUTION CONTROL INDUSTRIES WASTE STREAM RECERTIFICATION

All waste streams not received by Pollution Control Industries for longer than one year are considered inactive and must recertified before shipment.

10
WASTE STREAM NUMBER, 324266 current process code // // Current process code // Current process code
Original Approval Date 0 2 200 Last Shipped On 10 04 200
Generator BW Services Billing Name
Address 100 Wayne Drive Billing Add
City Angleton 'State TX City State State Phone:
Thomas -
Please Check the Appropriate
****ALL PROFILES WITH ORIGINAL APPROVAL DATE PRIOR TO FEBRUARY 1, 2003 MUST HAVE COMPLETED PROFILE INCLUDED WITH RECERT FORM.
****ALL PROFILES THAT HAVE HAD CHANGES TO PROCESS GENERATING OR WASTE CHARACTERIZATIONS MUST HAVE COMPLETED PROFILE WITH RECERTIFICATION FORM
1. Has the waste stream change since the original approval??? (Changes can include: Process generating, physical or chemical characteristics, or RCRA or DOT characterization) Yes
2. Was the original approval date prior to February 1, 2003?YesXNo
If the answer was 'Yes' to EITHER questions 1 or 2 then please forward current copy of the waste waste stream profile with this recertification statement
If the answer was 'No' to BOTH questions 1 and 2 then I certify this waste and it's process generating, RCRA and DOT classification, and chemical and physical properties have remained unchanged since the original approval.  YesNo
I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability. Any changes that have occurred to this waste stream have been disclosed and a copy of the current profile provided. No deliberate or willful omissions of composition or properties exist and that all known or suspected hazards have been disclosed.
omissions of composition of properties exist and that all known of suspecied hazards have been disclosed.
Name (Print): Junited Rust Title: Doc CS
Authorized Signature: Date: 7-3(-05

US Ecology Texas, Inc. P.O. Box 307 3277 County Road 69 Robstown, TX 78380

Phone: (800) 242 3209 (361) 387-3518 Fax: (361) 387 0794 (361) 387-0577

# US Ecology Texas, Inc.

austinerican icology campany	
July 30, 2009	
MORGAN MCCARLEY CES ENVIRONMENTAL SERVICES INC 4904 GRIGGS RD. HOUSTON, TX 77021	Generator : DELTA CHEMICAL SERVICES US Ecology WS # : 090060742-0 Waste Stream Name: HAZARDOUS RAGS & DEBRIS Expiration Date : 04/11/2009
Dear Morgan Mccarley,	
Please review the attached copy of your Waste Product Question	naire (WPQ) for above referenced waste stream.
Please indicate your wish to either renew or discontinue your rene to the waste stream, its classification, characteristics, components inform us of these changes using the space below.	ewal of this waste stream and sign below. If there have been any changes, the process generating this waste, or any section of the WPQ, please
Please attach the following items and return this form to me to co	mplete the renewal process:
X Updated WPQ	
Waste Sample for testing	
Current analytical (<1 year old)	
1 1 MSDS	
LDR Certification	
1 Current TCEQ Waste Code#	
Our technical review staff may be required to contact you for additionally policy that would affect the management of this waste st	ditional information if there are changes in federal or state regulations or tream.
To keep your waste stream approval current we request your res 1-800-242-3209 or 361-387-3518. Thank you for your cooperati	sponse as soon as possible. If you have any questions, please call me at on.
Sincerely,	
Much Schinaling	
NICOLE SCHMALSTIEG CUSTOMER SERVICE ASSISTANT	
COSTONIAR SLIKVICE ASSISTANCE	
Please indicate your wish to renew W/S# 090060742-0  1 Indicate your wish not to continue the renewal of your W/S#	as described above.  990060742-0
Please list any changes to waste stream 090060742-0 its class his waste, or any section of the WPQ.	assification, characteristics and components, the process generating
uis wasie, of any secuon of the wry.	
Authorized Signature:	Date 7/3/4
A Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comm	
1 11	<b>\$</b>

Please return to: Jill Albert, P.O. Box 307, Robstown, TX 78380, Fax # (361)387-0794



334 TIDAL ROAD

DEER PARK, TX

334 TIDAL ROAD

DEER PARK, TX

JOY BAKER

12811701-8511

A. CUSTOMER INFORMATION

B. SHIPPING INFORMATION # US DOT Shipping Name:

Generator

Facility Address:

Mailing Address:

City/State/Zip

City State Zip (No PO Box)

Phone:

NAICS #

Tech. Contact

US Ecology Nevada (Beatty) ✓ US Ecology Texas (Robstown) Profile #: 090060742-0 Fax (775) 553 -2125 Fax (361) 387-0794 US Ecology Idaho (Grandview) Fax (208) 834-2919 "Waste as shipped will be: Industrial Non - Industrial *(Texas customers only) DELTA CHEMICAL SERVICES Check if billing is same Billing Company: CES ENVIRONMENTAL SERVICES INC 77536 Billing Address: 4904 GRIGGS RD City/State/Zip HOUSTON, TX 77021 Billing Contact: 77536 JUANITA THOMAS Phone: (713)676-1460 Fax: (713) 676-1676 Pax ( ) Email: CESOG. EPA ID# TXR000029199 State ID# 85855 FLAMMABLE SOLID, ORGANIC, N.O.S. 2 Hazard Class 1 Packaging Group: 11 · RQ Pallet Size 55 7 Frequency: N Year OTR Month I lune Quantity: 40 00 Tons Yards Gallons. X Drums Other

FUN/NA: UNI325 6 Container Type Totes Other Bags / Drums Boxes C. GENERAL MATERIAL & REGULATORY INFORMATION 1. Name of Material HAZARDOUS RAGS & DEBRIS 2 Process Generating the Material: PPE, DEBRIS, AND RAGS FROM DRUM PACKAGING FACILITY 3. Describe Physical Appearance of Waste: 4. Describe odor of waste: None X Slight Strong Describe: 5. Knowledge is from MSDS. N Process/Generator Knowlege Lab Analysis X Yes No Is the waste restricted under EPA Land disposal No. Is the material <500 PPMW VOC as generated? Restrictions (40 CFR 268) If yes please complete LDR form Yes X No Is the waste generating facility, subject to regulation under 40 CFR Part 61 Subpart FF (Renzene Rule) of NESHAPS? If yes, complete form "attachment 4". (Note: This is waste generated from chemical manufacturing, coke-by-product recovery plants, petrolinem refineers or treaters of such waste are subjecte to these requirements.)

No State waste codes | 00114090 N Yes 006409# Yes X No CERCLA Regulated (Superfund) Waste EPA Haz, Waste (List codes) X Yes No

U122 U162

Yes X No Contains UHCs/Constituents of Concern: List in section D Yes X No. Has this waste been treated after the initial point of generation? Yes X No Subpart XX (40 CFR 63 1080) Controls Required? Yes X No Exempt Waste: If yes, list ref 40 CFR

Non-Waste Water

Source Code G G32 Form Code W W409

Water

Yes X No Alternative standards for Soil?

D.MATERIAL COMPOSITION (Physical/Chemical)

E. Does Waste Exhibit or Contain the Following:

Mgt, Method II 11132

N Debris

> 12.5

X TOTALS TCLP Range Total > or 100%) Values are Range Components Value | Units RAGS, PPE, DEBRIS 97 0. 95 - 99 Methanol 0.5 0 - 1 METHACRYLIC ACID 0.5 0 - 1 METHYLESI, DEP PHENYLESI. 0.5 0 - 1 TOLUENE DIISOCYANATE 0.5 0-1 FORMALDEHYDE 0.5 0 - 1 MEATLYLENE DIPHENYL DISOCYANATE 0.5 0 - 1

Yes X No Oxidizer Yes X No React, Sulfides ppm Yes X No Explosive Yes X No React. Cyanides ppm Yes X No Organic Peroxide Yes X No Water/Air(Pyrophoric) React Yes X No Shock Sensitive Yes X No Thermally Unstable Yes X No Tires Yes X No TSCA Regulated PCB Waste Yes X No pyrophoric Yes X No Regulated Medical Infectious Yes X No Radioactive** Yes X No Compressed Gases Yes X No Exempt RAD** **Adminial Radiological info is provided in USETs WAC Addendum Yes X No Halogenated Organic Compounds?(per 40CFR 268,Appendix III)

F - PHYSICAL CHARACTERISTICS Flash Point 140 °F (if < 140° F) Actual pH: pH Range: x >2,<12.5

Yes X No Possibility of incidental liquids from transporation? No Does waste pass EPA specified paint filter test? (Pass is a solid) X Yes

G - CERTIFICATION Yes X No I certify this material may be disposed of without further treatment

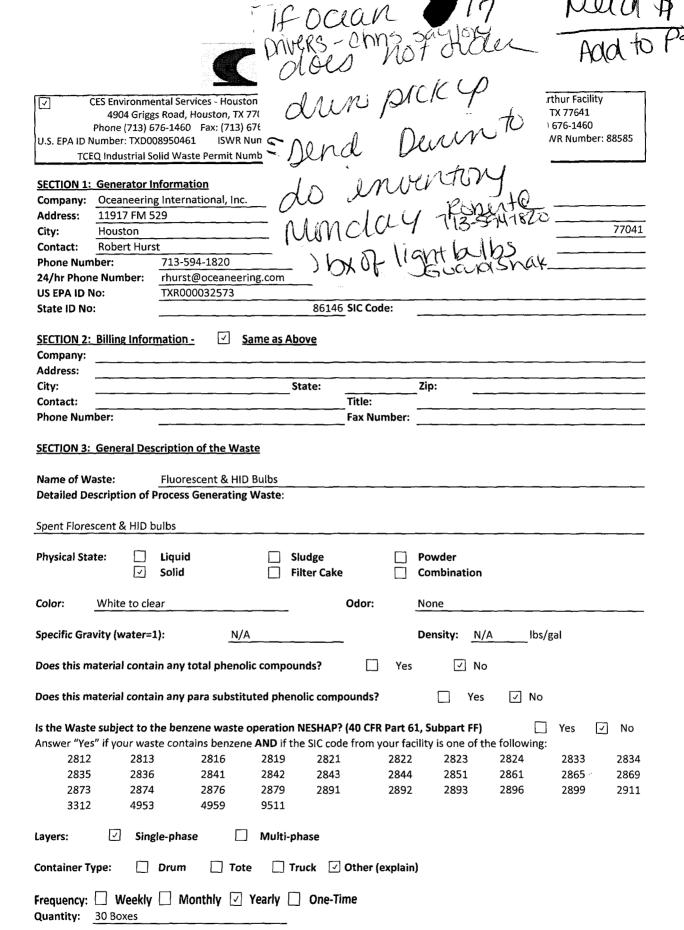
Certification Statement: 1 certify under penalty of law that I am familiar with this waste stream through analysis and/or process knowledge, and that all information provided is true, accurate, representitive and complete, and that all known or suspected bazards have been disclosed. Furthermore, I certify that this form was completed in accordance with the instructions provided.

SIGNATURE FACILITY US Printed Name

Jon Bake por General Date 7/30/09

First Review: Date Approved: 04/11/2008 Second Review: TC

Final Review: BP Date Denied:



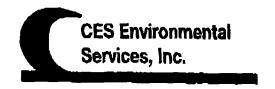
Is this a USEPA "Hazard If "Yes", then please co				Yes	No No nts Form attached hereto		
If "Yes", Is it:         D001 (Ignitable)         D002 (Corrosive)         D003 (Reactive)           Characteristic for Toxic Metals:         D004         D005         D006         D007         D008         D009           D010         D011							
Characteristic for Toxic	Organics: D0						
Is this an "F" or "K" List If "Yes", then please I			?	☐ Yes	s V No		
Is this a commercial pro 40 CFR 261.33(e) or (f)? If "Yes", then please I		☐ Y	_	a "U" or "P" wa ☑ No	aste code under		
Texas State Waste Code	Number:		UNIV309	H			
Proper US DOT Shipping Class:	g Name: 9_UN/NA:	Environmer UN3077	ntally Haza PG:	rdous Substance	e, Solid, N.O.S. (fluoresce RQ:NONE	nt & HID bulbs)	
Flash Point		pH	Reac	tive Sulfides	Reactive Cyanides	Solids	
N/A		N/A	BRL	mg/l	BRL mg/l	100 %	
Oil & Grease		TOC		Zinc	Copper	Nickel	
N/A <u>mg/l</u>	BRL	mg/l	BRL	mg/l	BRL mg/l	BRL mg/l	
SECTION 4: Physical and	d Chemical Da				CONCENTRATOIN	UNITS	
		llowing materia	als		or %		
Fluc	rescent Light				<u> </u>		
	HID Bulbs				0-100	%	
į.				1		ı	

	: Safety Rela				1 .		
			use of special protecti	ve equipment, please (	explain.		
Level D, Pr	otective glov	es for glass.		<del> </del>			
<del></del>							
		Supporting Docur	··· <del>·</del>		-4-		
			nalysis attached to this	form as part of the was	ste		
approval p	аскаge.	None					
	: Incompati						
	ALL incompa	tibilities (if any):					
None		· · · · · · · · · · · · · · · · · · ·			·············		
SECTION 8	: Generator	's Knowledge Do	cumentation				
			ste characteristics, liste	d below. <b>WAS NOT PE</b>	RFORMED		
		ng generator kno		· · · · · · · · · · · · · · · ·			
TCLP Meta		BRL					
TCLP Volati		BRL					
TCLP Semi-	Volatiles:	BRL					
Reactivity:		Non-Reactive		···············			
Corrosivity		Non-Corrosive					
Ignitability:	:	>200 F	<u>-</u>		··············		
SECTION O		-	-l 40 CED 427 (Dub-1-1-1-				
Facilities)	waste kecel	ot Classification Of	ider 40 CFR 437 (Prtainin	to Pre-Treatment Kequ	iirements to	or Centralized Waste Treatment	
rucintiesy		rial a wastewater of complete this sec	or wastewater sludge? cion.		YES	√ NO	
	PLEASE CHE	CK THE APPROPRI	ATE BOX. IF NO APPROP	RIATE CATEGORY, GO TO	THE NEXT	PAGE.	
Metals Suhr	category: Sul	hnart A					
		roplating baths and	l/or sludges				
		ing rinse water an					
	Chromate w						
<u> </u>			n water and sludges				
-	- ·	izing solutions n wastewaters					
<u> </u>	Waste liquid						
Ī			ater than 136 mg/l				
		and bases with or					
	$\square$ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations						
Ļ		eburring wastewat					
_	_ Alkaline and	acid solutions use	d to clean metal parts or	equipment			
Oils Subcate	gory: Subpa	rt B					
L.	Used oils						
<u> </u>	] Oil-water er ] Lubricants	nulsions or mixture	:>				
-	Coolants						
	5	ed groundwater cl	ean-up from petroleum s	ources			
		eum products	, ,				
	Oil spill clea	n-up					
	Bilge water						
∟	j kinse/wash	waters from petro	ieum sources				

Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes  Organics Subcategory: Subpart C Landfill leachate Contaminated groundwater clean-up from non-petroleum sources
Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources
(1)  If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)  If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.  Cadmium: 0.2 mg/L  Chromium: 8.9 mg/L  Copper: 4.9 mg/L  Nickel: 37.5 mg/L
(3)  If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.  Metals Subcategory  Oils Subcategory  Organics Subcategory
SECTION 10 Additional Instructions
If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.
SECTION 11: Generator's Certification  The information contained herein is based on generator knowledge and/or analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of compostion properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.
Authorized Signature: Date:
Printed Name/Title:
CES USE ONLY (DO NOT WRITE IN THIS SPACE)
Compliance Officer:  Date: Approved Rejected  Approval Number:

CES ENVIROMENTAL

7137488664



4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

### Waste Profile Re-Certification Form

CES Waste Approval #: **HQU-1442** 

Customer:

**Ethyl Corporation** 

Waste Generator:

**Ethyl Corporation** 

Waste Stream Name:

Oily Sludge from miscellaneous cleanout / cleaning activities.

Expiration Date:

3/22/2009

As per our waste analysis plan, CES Environmental Services, Inc. requires recertification of all approved waste profiles on an annual basis. The purpose of this form is to confirm that no changes have been made in the generation process of the aforementioned waste stream and that the waste stream remains classified as nonhazardous as per 40 CFR 261.3.

Generator hereby certifies that the components in the aforementioned waste stream and the process generating this waste stream remain the same as when issued the aforementioned CES Waste Approval Number: (Check Appropriate Box)

No changes, please recertify.

Please send new profile as waste stream has changed.

Analysis is NOT required for recertification.

The following analysis is required for recertification. Please sumbit results of the following tests.

TCLP Metals - RCRA

TCLP Volatiles

TCLP Semi-volatiles

Reactivity

Corrosivity Ignitability

Jenny.

I need the above. Thanks

Total P.003

þ

7137488664

P.002

focus email

4-13-9

4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

## **Waste Profile Re-Certification Form**

5P

CES Waste Approval #:

HOU-2120

CES Environmental

Services, Inc.

Customer:

Chemical Transport

Waste Generator:

**Chemical Transport** 

Waste Stream Name:

Sump sludge

Expiration Date:

3/22/2009

As per our waste analysis plan, CBS Environmental Services, Inc. requires recertification of all approved waste profiles on an annual basis. The purpose of this form is to confirm that no changes have been made in the generation process of the aforementioned waste stream and that the waste stream remains classified as non-hazardous as per 40 CFR 261.3.

Generator hereby certifies that the components in the aforementioned waste stream and the process generating this waste stream remain the same as when issued the aforementioned CES Waste Approval Number: (Check Appropriate Box)

No changes, please recertify.

Analysis is NOT required for recertification.

Please send new profile as waste stream has changed.

The following analysis is required for recertification. Please sumbit results of the following tests.

CHEMICA TRANSPOR

Customer Name

TCLP Wetals
TCLP Volatiles
TCLP Semi-volatiles

- Lety

Reactivity

CHEMICA TRANSPOR

Corresivity Ignitability

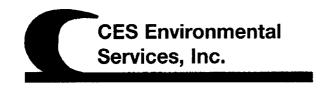
Company / Title

8 AMC 09

Date

Total P.002

s metals totals.



4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

To: Joe Camp, Jennifer Rust

Date: 7/09/09

Cc: Matt Bowman, Prabhaker, Clint Hopkins, Sam Brown

From: Miles Root Lab Memo: 09-135

Subject: Hydrocarbon Engineering Evaluation 0709-08

A sample of waste water from Hydrocarbon Engineering has been evaluated for potential processing at CES. This sample is evaluation 0709-08 and represents an unknown volume or frequency of water. Overall, this water is on the high side for phenols, but can be treated at CES.

This sample is murky brown in appearance and has an acceptable slight hydrocarbon type odor. The pH is 7 and the water has a trace of solids. The water does not have a flash point below 140 deg F. The water treats easily and forms a nice floc that readily separates. The treated water has 15 ppm phenols, a very high TOC of 44,780 ppm and acceptable metals.

The phenols are on the high side and may need treatment if the actual water comes in with higher phenols. Pricing should include the high TOC values. We can treat this water at CES and its acquisition is recommended. The table below summarizes the analytical testing.

Hydrocarbon Engineering					
Evaluation 0709-08					
pH 7					
Phenols, ppm	15				
TOC, mg/L	44,780				
Odor	Acceptable				
Flash Point, deg F	>140				
Oil, vol%	0				
Solids	trace				
Treatability	OK				
Metals, ppm					
Ni	0.105				
Zn	0.100				
Cu	0.097				
Cd	0.006				
Cr	0.000				

#### ennifer Rust

From:

Joe Camp

Sent:

Thursday, July 09, 2009 12:38 PM

To:

Jennifer Rust

Subject:

FW: Hydrocarbon Engineering Evaluation 0709-08

Can you put together a profile for this and fax it to Chuck in Mississippi? Ralph wants to proceed with this.

From: Clinton Hopkins <chopkins@cesenvironmental.com>

Sent: Thursday, July 09, 2009 12:07 PM

To: Joe Camp < jcamp@cesenvironmental.com>

Cc: Jennifer Rust < irust@cesenvironmental.com>; Sam Brown < sbrown@cesenvironmental.com>

Subject: RE: Hydrocarbon Engineering Evaluation 0709-08

Joe,

\$0.23 gallon (pricing for 40-45k TOC) for this load as a base price. Then write in surcharging for phenol (0-15ppm

15-25ppm – \$0.05, 25-50ppm – \$0.07,

\$0.02 more thereafter for every 25ppm phenol up to 200ppm)

o 23 Joyallon

From: Joe Camp

Sent: Thursday, July 09, 2009 11:59 AM

**To:** Clinton Hopkins **Cc:** Jennifer Rust

Subject: FW: Hydrocarbon Engineering Evaluation 0709-08

Clint, I'm visiting customers in Louisiana and don't have access to the rate sheet. Can you recommend a price for this water so I can call them today and see if they want us to proceed with a new profile?

From: Miles Root <mroot@cesenvironmental.com>

Sent: Thursday, July 09, 2009 11:50 AM

To: Joe Camp <jcamp@cesenvironmental.com>; Jennifer Rust <jrust@cesenvironmental.com>

Cc: Matt Bowman <mbowman@cesenvironmental.com>; Prabhaker Thangudu opthangudu@cesenvironmental.com>;

Clinton Hopkins <chopkins@cesenvironmental.com>; Sam Brown <sbrown@cesenvironmental.com>

Subject: Hydrocarbon Engineering Evaluation 0709-08

The attached memo details the work on Hydrocarbon Engineering evaluation 0709-08.

Miles Root

Laboratory and Quality Assurance Manager

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021 Cell: 832-607-6678

Fax: 713-748-8664



#### WASTESTREAM INFORMATION PROFILE

Recertific	ation		•	Disposal Code
Veolia ES LO	OCATION		·	
Invoice	Address	CITY	ST	
☐ Manifest	t from – blank if direct			
	SDF requested <b>PORT ARTHU</b> Technol	nov requested DEEP WELL.	Generator No.	Generator EPA ID No.
TXR0000793		ogy requested <u>DEDI WEDD</u>	Generator 1 (o	
1 Generato	or Name CES Environmental Service	s. Inc.	Generator State	No. 88585
	2420 Gulfway	5, ANO		ım No. <u>00011131</u>
City Port	<del></del>	State TX	Country USA ZIP 77640	
·	SIC) Code		· —	stem Type
MAICS (		_ Source Origin _		
2. Waste Na	ame Class I W/W		Lab or Wa	ste Area
	Generating Waste wastewater from th	e manufacturing of sodium hydro		<del></del>
	Name NON-HAZARDOUS, NON-R		(1,000)	
RQ Desc:	Class UN/NA No PG   1.		•	
DOT Desc:	1.	2		
DOT DUSC.	1.		··	
5. Waste Co				
Wastewa		Sub Category		
	and chemical properties	(check all that apply)	Solids	1
<b>pH</b> a	Specific Gravity $a \square < .8$	Flash Point (F) a $\square$ < 80	0-10 % suspended	% ash
b 🛛 2 - 5	b .8 - 1.0	ь 🗌 80 - 100	% settleable	water solubility
c 🔯 5-9	c \overline 🗵 1.0	c 🔲 101 - 140	% dissolved	BTU/Ib
d 🔲 9 - 12.		d 🔲 141 - 200		
e		e $\boxtimes > 200$ f no flash exact	Free Liquid Range 90 to 10	09/
exac			Free Enquid Range 30 to 10	
	ysical State	Hazardous Characteristics	· NDC · · · last	Odor a none
s solid m semi-so	a air react	=	or NRC regulated	b mild
I I liquid		reactive t temp sensit		c strong
	ble semi-solid f sulfide	<del></del>	tion/monomer	describe <u>pungent</u>
f [ flowab	le powder e explosiv		inogen	
g 🔲 gas	o oxidizir	<u> </u>		Halogens
a aerosol		e former h inhalation h	nazard Zone: _	Br % Bromine
= -	ized liquid			Cl % Chlorine F % Fluorine
d debris p	per 40 CFR 268.45			I % Iodine
Layers:	amultilayered:	b Di-layered:	c single phase:	
•	Top Layer	Second Layer	Bottom Layer	Color
Viscosity	high (syrup)	high (syrup)	high (syrup)	<u>brown</u>
by	medium (oil)	medium (oil)	medium (oil)	
Layer:	low (water)	low (water)	low (water)	
TT 1	solid	solid	solid	<u> </u>
Used oil y/n	HOC <1000 ppm or > 1000 p	pm page 1 of 2		*****
				WIP No

WIP 2001

B = Benzene NESHAP, T = TR Constituents	RI Chemical, C = OS Range	SHA Carcinogen] Units	Constituer	nts	Range	Units
Water	65-93	%	Constitue	11.5	Runge	
Solids	0-10	%				
Misc. Soluble Organic Sulfur compounds	1-10	%				
Ammonia Compounds	05	%				
Sulfuric Acid	04	%				-
Sodium Hydroxide	04	%				
Sulfide	0-50	ppm				
Total Composition Must Equal or Exceed 100%	<b>_</b>		<u> </u>			
8. Is the wastestream being imported into the USA?  9. Does the wastestream contain PCBs regulated by 40 PCB concentrationppm  10. Is the wastestream subject to the Marine Pollutant F  11. Is the wastestream subject to Benzene NESHAP?  If yes, is the wastestream subject to Notification and Benzene concentrationppm  12. Is the wastestream subject to RCRA subpart CC con Volatile organic concentration, if knownppr  CC approved analytical method Generator Kn  13. Is the wastestream from a CERCLA or state mandat  14. Container Information (Identify UN container management of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the pro	Regulations?  d Control Requirentrols?  nw  nowledge  ded cleanup?  narking if known)		ze: <u>Tanker Truck / <b>5,000</b> gall</u> e	Yes No No Yes No No Yes No Yes No Xes No Xes No Xes No Xes No Xes No Yes No Xes No Xes No Xes No Xes No Xes No Xes No Xes No Xes No Xes No Xes No Xes No Xes Xes No Xes Xes Xes Xes Xes Xes Xes Xes Xes Xes		
Shipping Frequency: Units 5 TRUCKS Per M		uarter 🔲	Year \( \sum \) One Time \( \sum \)	Other PER DAY		
15. Additional Information: We have submitted two  Is analytical or an MSDS available that describes the wa  GENERATOR CERTIFICATION		es 🛛 No [		<u></u>		
I hereby certify that all information submitted in this and is representative as defined in 40 CFR 261 - Appendix I the possession of the generator has been disclosed. I au	l or by using an e	quivalent met	hod. All relevant information i	egarding known or s		
NAME (PRINT OR TYPE)			PHONE		DATE	
SIGNATURE				TITLE		
FACILITY NOTIFICATION If approved for management, Veolia ES has all the nece	ssary permits and	l licenses for t	the waste that has been characte	rized and identified	by this prot	file.
TSDF PROCESSING USE ONLY: PPE I	REQUIRED No	o Yes	s Describe			
WIP 2001		PAGE 2 OF 2		WIP No.		

## VEOLIA ENVIRONMENTAL SERVICES WIP INSTRUCTIONS

Veolia ES requires completion of all sections of the Wastestream Information Profile (WIP). Sections not applicable to the wastestream must have N/A written in the space provided.

Documented WIP information is used to comply with TSDF Waste Analysis Plans, RCRA and DOT regulations, Emergency Planning and Community Right-to-Know Act (EPCRA), Pollution Prevention Act, Toxic Release Inventory Report and other regulatory and generator requirements.

#### MARINE POLLUTANT

- The wastestream is subject to the Marine Pollutant Regulations if:
  - it is a bulk (>119 gallons) packaging with Marine Pollutant concentration ≥ 10% or Severe Marine Pollutant concentration > 1%

or

 it is non-bulk Marine Pollutant shipped by vessel (boat) in packages larger than 5 liters (liquid) or 5 kg (solid)

or

3. it is a non-bulk Severe Marine Pollutant, shipped by vessel (boat) in packages larger than 0.5 liters (liquid) or 0.5 kg (solid).

Refer to the list of Marine Pollutants.

#### **OZONE DEPLETING SUBSTANCE (ODS)**

Refer to the list of Ozone Depleting Substances.

#### UNDERLYING HAZARDOUS CONSTITUENT (UHC)

Refer to the list of Underlying Hazardous Constituents (40 CFR 268.48)

#### BENZENE NESHAP

- The wastestream is subject to Benzene NESHAP notification and control requirements if it:
  - 1. contains > 10 ppm benzene, and
  - is generated by a chemical manufacturing plant, petroleum refinery or coke by-product recovery plant, and
  - 3. the generator's Total Annual Benzene (TAB) is  $\geq 10 \text{ Mg/yr}$

#### TRI CHEMICAL

• The wastestream is subject to Toxic Release Inventory Reporting if it contains a Section 313 Toxic Chemical and meets Qualifier requirements.

#### **OSHA CARCINOGEN**

OSHA promulgated standards in 1974 to regulate the industrial use of 13 chemicals identified as
occupational carcinogens. Exposures are to be controlled through the required use of engineering
controls, work practices, and personal protective equipment, including respirators.
 See 29 CFR 1910.1003-1910.1016 for specific details.

#### RCRA SUB-PART CC CONTROLS

- Subpart CC Air Emission Control requirements apply to large quantity hazardous waste generators and to treatment, storage, and disposal facilities.
- Waste in containers greater than 0.1 cubic meters (i.e., 26.4 gallons) with greater than 500 ppm volatile
  organics are subject to this rule., unless otherwise exempted. Allowable controls include DOT approved
  containers, containers with an adequate cover and closure devices, and containers which operate with no
  detectable emissions (less than 500 ppm).

WIP 2001

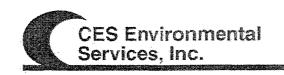
Profile # 0926091180 BH

## NES TX/NID

## NONHAZARDOUS SOLID WASTE DISPOSAL APPLICATION 1. GENERATOR CERTIFICATION

of my knowledge and ability, rep	pal generator of the waste described below.  resentative, complete, and accurate. This atain PCB's regulated by TSCA (ie., 40 CFR.)	waste is not a regulated hazardous w				
GENERATOR'S SIGNATURE/GENERATOR'S AUTHORIZED SIGNATORY:  Date: Signature: 1						
Printed/Typed Name, Title		ector, CES Environmental Ser	vices, Inc.			
	2. GENER	ATOR INFORMATION				
b. Generator's Address: City: Port Arthur Telephone: (713) 6 Fax: (713) 6 C. Generator Representativ Title: President Telephone: (713) 6	2420 S. Gulfway Dr. e State: TX Zip: 77641 676-1460 f 676-1676 g Wet Matt Bowman	d. Billing Name: C. b. Billing Address: City: Houston Contact Person: g. Telephone: Fax: (713 ) 676-1676 Email: jthomas@cesenvironn	<u> </u>			
	3. WAS	STE DESCRIPTION				
a. Waste Name/Waste De	scription: Non-Hazardous W					
b. Process of Waste Gener Sod i u c. TCEQ Waste Code # (If	ration: Wastewater from the Hydroxide as feed.	ne manufacturing of Sodium	Hydrosulfide (NaHS) using			
C. ICEQ Waste Code # (11	Applicable): OOO 1.1 134		and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s			
F L V R P	Dil and Gas Facility Field Name/#: _ease Name/# Well Name/#: Rig Name/#: Parish/County: State:	( X )	Industrial Facility Facility Name: CES Environmental Services Address: 2420 S. Gulfway Dr. City: Port Arthur Parish/County Jefferson State: TX Facility State Id 88585			
e. Physical State: ( )	Solid ( ) Semi-Solid	(※) Liquid (※) F	Powder ( ) Combination			
f. Color Brown Odor Slight Pungent PPE Level (A-K,X) D g. Anticipated Waste Volume: \$0,000 () Tons () CuYds (X) Gals () CuMtrs () BBIs Frequency: () Year () Month () Week (X) Day () One Time () Other h. Specify Method of Shipment: Tank Truck						
2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-		OSITION & CONSTITU	والمراب والمراب المراب والمراب			
Physical Components Oil and Grease: Water: Solids: Foreign Debris: Other (List Below):	Concentration Range 0-2 95-100 0-10 0-10	## Units    %	Amendments (Newpark Only)			
See the attached list  pH: Specific Gravity: NORM-Ra 226: Total Activity:	3-7 1 <30 <150	std. units  pCi/gm pCi/gm				
			revised 4/21/06			

Methods:					Profile #	# 092	2609	7110	80 B1	4
(A) TCLP(mg/l)	)	(B) TOT	TAL(mg/l)	(C) GENE	RATOR KNOWLEDGE					
Volatiles/Semi-Volatiles	Reg. Limit	Below	Above	Method	Metals	Reg. Limit	Beto	OW .	Above	Method
Benzene	0.5 mg/L	×	<u> </u>	C	Arsenic	5 mg/L	×			A
Carbon Tetrachloride	0.5 mg/L	×		c	Barium	100 mg/L	×			A
Chlorobenzene	100 mg/L	×		C	Cadmium	1 mg/L	X			Å
Chloreform	6 mg/L	×		c	Chromium	5 mg/L	×			A .
m-cresol	200 mg/L	×		С	Lead	5 mg/L	×			A
o-cresol	200 mg/L	×		C	Mercury	0.2 mg/L	×			A
p-cresol	200 mg/L	×		C	Selenjum	1 mg/L	×			A
1,4-Dichlorobenzens	7.5 mg/L	×		<b>C</b> 3 3 2	Silver	5 mg/L	×			Ā
1,1-Dichloroethylene	0.7 mg/L	×		C		***************************************	1		<u> </u>	
1,2-Dichloroethane	0,5 mg/L	×		c	Herbs/Pests	Reg. Limit	Beio	wi/	Above	Method
2,4-Dinitrotoluene	0.13 mg/L	×		c	Chlorodane	0.03 mg/L	×		1	C
Hexachkrobenzene	0.13 mg/L	×		c	Enditn	0.02 mg/L	×		<del> </del>	- c
Hexachiorobutadiene	0.5 mg/L	×	-	c	Heptachlor/Heptachlor Epoxide	0.009 mg/L	x			c
Hexachloroethane.	3 mg/L	×		c	Lindane	0.4 mg/L	×			c
Aethyl Ethyl Kelone	200 mg/L	×		c	Methoxychlor	10 mg/L	×			c
litrobenzene	2 mg/L	×		c	Silvex (2,4,5-TP)	1.0 mg/L	×	<del></del>	<u> </u>	- c
entachlorophenol	100 mg/L	×	- 1	c	Toxaphere	0.5 mg/L	×			c .
yridine	5 mg/L	×		c	2,4D	10.0 mg/L	×			-  <del>-</del>
etrachloroethylene	0.7 mg/L	×		c			<u> </u>		<u> </u>	
richloroethylene	0.5 mg/L	×		c	Reactivity Sulfide	Reg. Limit 500 mg/kg	Below		Above	Method
,4,5 Trichlorophenol	400 mg/L	×	·	c	Cyanide		x			c
,4,6 Trichlorophenol	2 mg/L	X		c	Corrosive/Ignitable	1	l'			
inyl Chloride	0.2 mig/L	×	· · · · · · · · · · · · · · · · · · ·	c		<u> </u>	<u> </u>			<u> </u>
			·	<u> </u>	Plashpoint (deg. F) pH (Std. Unit)	( ) ≤140	(X )	>140,	( ) N/A	
				5. SUPPLI	EMENTAL INFORMATION	( ) ≤2.0 ON	(X ) }	2.1-12.4	( ) >1	2.5 ( ) N/A
( S ) MSD SH	reets	(*)	Chain of C	ustody	(X) Analytical Data	( <b>X</b> ,	) Other	<u> </u>	Generat	or Knowledge
	•	**************************************	FC	OR NEV	VPARK USE O	NLY	<del></del>	<del></del>	<del></del>	
Waste Classifica ( ✓ ) NIW Standard Condit Special handling	ions: <u>eve pr</u>	() otection,			( ) Exempt OGW t required to handle wast Approval:	<u>e</u> Standara	) Disap L Prec			
lewpark Receiv	ure: PQ:	Jlif	OCO	anto	Profile Approval Date: Profile Recertification I Profile Expiration Date	Date: 09	9-26-0 1-26-0 1-26-1	09	94	alah Militari yang sang sang kan kan panahar
207 Tow	ed form and Environme In Center Pa e, LA 70506	ntal Man rkway, 2	agement S		email: <b>profile @r</b> Phone: (337) 984-4 Fax: (337) 989-201	1445	nv.com	1		



Name of Waste: NASH Production Waste Water, Class 1, Non-Hazardous

Profile:

Attached List: NASH Production Waste Water Chemical Composition

Water: 65 - 93%

Miscellaneous Water Soluble Dissolved Chloride, Sulfate & Hydroxide Salts: 5-25 %

(Sodium, Potassium, Calcium salt types)

Miscellaneous Soluble Organic Sulfur Compound's: 1-10%

Solids: 0.1 - 10% (dirt, grit, rust, filter media, road grime, organic residue)

Ammonia Compounds: 0.0 - 0.5%

Sulfuric Acid: 0.0 - .4%

Sodium Hydroxide: (0.0-.4%)

Sulfide: 0.0-50 ppm

List of Remaining constituents: 0-2 %

PHENOL'S
PHENOLIC COMPOUNDS
C2-C4 AMINE'S
SODIUM & POTASSIUM MERCAPTIDES
DIETHYL DISULFIDE

LONG CHAIN MERCAPTANS
OLEFINS
PARRAFINS
DIMETHYL DISULFIDE
IRON OXIDE/RUST

NASH Production Waste Water, Class 1, Non-Hazardous, 9-16-2008 ACTIVE

## **GENERATOR KNOWLEDGE DOCUMENTATION**

GENERATOR:	CES Environmental Services, Inc.	
Facility I.D. #:	88585	
Waste Name:	Non-Hazardous Wastewater	
State Waste Code #:	0001/131	
Datailed Department of Monte Consum	ation December	
Detailed Description of Waste General Wastewater from the manufacture	ation Process. rring of NaSH and Sodium Sulfide using Sulfidic and Phenolic	Causticas feeds
vvalovator nom sno manasaota	ming of reacts and couldn't cando some same and the restriction	ouddiodd 100d3.
	waste characteristics, listed below, was not performed based u	ipon the
following generator knowledge:		
TOXICITY		
TCLP/Total Metals		
	Metals are below regulatory limits.	<del>Nagyya ayaanta maataa ka maayaa ka ya ahaa ahaa ahaa ahaa ahaa aha</del>
TCLP/Total Volatile Organics	Valetile Ossanice and heleur and the dispite	
	Volatile Organics are below regulatory limits.	
TCLP/Total Semivolatile Organic		
Ţ. Se	emivolatile Organics are below regulatory limits.	* 1
		N-40-000 (18 pt/46) (51,44 cm)
TCLP/Total Herbicides and Pecti		
I nere are	no Herbicides or Pesticides introduced into the process.	
45 - 11 - 11 - 11 - 11 - 11 - 11 - 11 -		nicus applicativams
REACTIVITY	agethic meterials are introduced into the process	
NO II	eactive materials are introduced into the process.	
CORROSIVITY		
pH is	within regulatory limits (checked before shipping).	
IGNITABILITY		
	terials are present in the process (checked before shipping).	
	, , , , , , , , , , , , , , , , , , , ,	
Signature:		
Title:	Director of Logether Custom. Service	
Date:	9/25/08	
Employer:	CES Environmental Services	
	CHAMBIAN COLL	

Job ID: 08090429



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name:

Report To:

Client Name: Attn:

4904 Griggs Rd

Client Address: City, State, Zip:

**CES Environmental** Gary Brauchman

Houston, Texas, 77021

P.O.#.: 0908-31

Sample Collected By:

Date Collected: 09/11/08

A&B Labs has analyzed the following samples...

Client Sample ID

0908-31 Treated H2O

Matrix

A&B Sample ID

Liquid

08090429.01

Sonia West

Released By: Sonia West

Title:

Senior Project Manager

Date:

9/24/2008



This Laboratory is NELAP (T104704213-08-TX) accredited. Effective: 07/01/2008; Expires: 06/03/2009 Scope: Non-Potable Water, Drinking Water, Air, Solid, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

contract per reproduced, except in rull, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client.

Date Received: 09/22/2008 14:00

#### LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID: 08090429

Date:

9/24/2008

General Term Definition

Back-Wt

Back Weight

BRL cfu

Below Reporting Limit colony-forming units

Conc. D.F.

Concentration **Dilution Factor** 

Front-Wt

Front Weight

LCS LCSD Laboratory Check Standard Laboratory Check Standard Duplicate

MS

Matrix Spike

MSD

Matrix Spike Duplicate

MW

Molecular Weight

RegLimit RPD RptLimit

Post-Wt

ppm

Q

surr

Pre-Wt

Regulatory Limit Relative Percent Difference

parts per million

Previous Weight

Post Weight

Reporting Limit Surrogate

Qualifier

Time

TNTC

Too numerous to count

Qualifier Definition

НЗ

Sample was received and analyzed past holding time.

## LABORATORY TEST RESULTS

Job ID: 08090429

Date 9/24/2008

CES Environmental Client Name:

Attn: Gary Brauchman

Project Name:

Client Sample ID: Date Collected: Time Collected:

0908-31 Treated H2O

09/11/08

Job Sample ID:

Other Information:

Sample Matrix Liquid

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit Q	Date Time	Analyst
EPA 150.1	Corrosivity, pH							
	рН	6.83	s.u.			Н3	09/22/08 16:35	SG
SW-846 6010C	TCLP Metals							
	Antimony	BRL	mg/L	1	0.04	1	09/23/08 23:08	PGm
	Arsenic	BRL	mg/L	<b>1</b>	0.04	1.8	09/23/08 23:08	PGm
•	Barium	0.040	mg/L	1	0.04	100.0	09/23/08 23:08	PGm
	Beryllium	BRL	mg/L	1	0.04	0.08	09/23/08 23:08	PGm
	Cadmium	BRL	mg/L	1.	0.04	0.5	09/23/08 23:08	PGm
	Chromium	BRL	mg/L	1	0.04	5.0	09/23/08 23:08	PGm
	Lead	BRL	mg/L	1	0.04	1.5	09/23/08 23:08	PGm
	Nickel	BRL	mg/L	1	0,04	70	09/23/08 23:08	PGm
	Selenium	BRL	mg/L	1	0.1	1.0	09/23/08 23:08	PGm
	Silver	BRL	mg/L	1	0.04	5.0	09/23/08 23:08	PGm
	Vanadium	BRL	mg/L	1	0.04	30	09/23/08 23:08	PGm
SW-846 7470A	TCLP Metals, Mercury			* * * * * * * * * * * * * * * * * * * *		1 // 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
· · · · · · · · · · · · · · · · · · ·	Mercury	BRL.	mg/L	1	0.0005	0.2	09/23/08 13:42	ΤK

A & B Labs	enticipates and the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the c	in oj	f Cust	ody			The	Cha	iin (	of C	uslo	dy	is a L	ega	Do	cumei	11			Pag	e(		معيوسون مدمليون
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## MATERIAL SAFETY DATA SHEET

R92111 16 00

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION HMIS CODES PRODUCT NUMBER Health Flammability R92111 Reactivity PRODUCT NAME

RUST TOUGH* Water-Based Rust Preventive Enamel, Gloss White

MANUFACTURER'S NAME

EMERGENCY TELEPHONE NO. THE SHERWIN-WILLIAMS COMPANY (216) 566-2917 Diversified Brands Cleveland, OH 44115 DATE OF PREPARATION INFORMATION TELEPHONE NO. (800) 247-3266 10-FEB-04 Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS % by WT CAS No. INGREDIENT UNITS VAPOR PRESSURE 2-Butoxyethanol ACGIH TLV 20 ppm (skin) OSHA PEL 20 ppm (skin) 3 111-76-2 0.88 mm 2-(2-Butoxyethoxy)-ethanol ACGIH TLV Not Available OSHA PEL Not Available 3 112-34-5 0.06 mm 16 13463-67-7 Titanium Dioxide 10 mg/m3 as Dust 10 mg/m3 Total Dust 5 mg/m3 Respirable Fraction ACGIH TLV OSHA PEL PEL OSHA Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.
In a confined area vapors in high concentration may cause headache,

nausea or dizziness. SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Continued on page 2



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R92111 page 2 

#### Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

SKIN: Wash affected area thoroughly with soap and water.

Remove contaminated clothing and launder before re-use. If affected, remove from exposure. Restore breathing.

Keep warm and quiet.

INGESTION:

Do not induce vomiting.
Get medical attention immediately.

#### Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT

N.A.

LEL UEL N.A. N.A.

Not Applicable FLAMMABILITY CLASSIFICATION

Not Applicable EXTINGUISHING MEDIA

INHALATION:

Carbon Dioxide, Dry Chemical, Alcohol Foam UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode (due to the build-up of pressure) when

exposed to extreme heat.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus

should be used.

Water spray may be ineffective. If water is used, fog nozzles are referable. Water may be used to cool closed containers to prevent ressure build-up and possible autoignition or explosion when exposed to _______ 

## Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

## Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Applicable

_________

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.



page 3 R92111 

## Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

RRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction) (total dust), 5 mg/m3 (respirable fraction). VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive. PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2. EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

## Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT SPECIFIC GRAVITY BOILING POINT MELTING POINT VOLATILE VOLUME EVAPORATION RATE VAPOR DENSITY SOLUBILITY IN WATER

9.62 lb/gal 1153 g/l 1.16 212 - 500 F 100 - 260 C Not Available 66 Slower than ether Heavier than air

N.A. 9.5

pH 9.5
VOLATILE ORGANIC COMPOUNDS (VOC Theoretical)
1.65 lb/gal 198 g/l Less Water and F
0.71 lb/gal 85 g/l Emitted VOC Less Water and Federally Exempt Solvents 

## Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable CONDITIONS TO AVOID None known. INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dicxide, Carbon Monoxide



page 4

________

## HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen. Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and blood forming systems.

Rats exposed to titanium dioxide dust at 250 mg./m3 developed lung

cancer, however, such exposure levels are not attainable in the workplace.

TOXICOLOGY DATA Ingredient Name CAS No. 111-76-2 2-Butoxyethanol LC50 Not Available RAT 4HR LD50 RAT 470 mg/kg 112-34-5 2-(2-Butoxyethoxy)-ethanol LC50 Not Available RAT 4HR LD50 5660 mg/kg RAT 13463-67-7 Titanium Dioxide LC50 RAT 4HR Not Available Not Available LD50

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Incinerate in approved facility. Do not incinerate closed container.

Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution. 

Section 14 -- TRANSPORT INFORMATION

No data available.

________ Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

Glycol Ethers

CAS No. CHEMICAL/COMPOUND % by WT % Element

R92111 page 5

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of alifornia to cause cancer.

SCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.



#### MATERIAL SAFETY DATA SHEET

R77111 11 00

_______ Section 1 -- PRODUCT AND COMPANY IDENTIFICATION PRODUCT NUMBER HMIS CODES Health Flammability Ω R77111 Reactivity PRODUCT NAME

RUST TOUGH* Water-Based Rust Preventive Enamel, Semi-Gloss Black
MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY

(216) 566-2917 Diversified Brands Cleveland, OH 44115 DATE OF PREPARATION 10-FEB-04 INFORMATION TELEPHONE NO. (800) 247-3266 Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS CAS No. INGREDIENT UNITS VAPOR PRESSURE % by WT 3 111~76-2 2-Butoxyethanol ACGIH TLV 20 ppm (skin) OSHA PEL 20 ppm (skin) 0.88 mm 2-(2-Butoxyethoxy)-ethanol ACGIH TLV Not Available OSHA PEL Not Available 3 112-34-5 0.06 mm 8 14807-96-6 Talc ACGIH TLV OSHA PEL 2 mg/m3 as Resp. Dust
2 mg/m3 as Resp. Dust 2 1333-86-4 Carbon Black ACGIH TLV 3.5 mg/m3OSHA PEL 3.5 mg/m3 Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.

SKIN: Prolonged or repeated exposure may cause irritation. INHALATION: Irritation of the upper respiratory system.

In a confined area vapors in high concentration may cause headache,

nausea or dizziness. SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.



page 2 R77111 

## Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes.

Get medical attention.

Wash affected area thoroughly with soap and water. SKIN:

Remove contaminated clothing and launder before re-use.

INHALATION: If affected, remove from exposure. Restore breathing.

Keep warm and quiet.

INGESTION: Do not induce vomiting.

Get medical attention immediately.

## Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT

LEL UEL N.A.

N.A.

Not Applicable FLAMMABILITY CLASSIFICATION

Not Applicable EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Alcohol Foam UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode (due to the build-up of pressure) when

exposed to extreme heat.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus

should be used.

Water spray may be ineffective. If water is used, fog nozzles are referable. Water may be used to cool closed containers to prevent ressure build-up and possible autoignition or explosion when exposed to extreme heat.

## Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Applicable

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

R77111 

## Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

RECAUTIONS TO BE TAKEN IN USE Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust) (total dust), 5 mg/m3 (respirable fraction). VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive. PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2. EÝE PROTECTION

Wear safety spectacles with unperforated sideshields.

## Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT SPECIFIC GRAVITY BOILING POINT MELTING POINT VOLATILE VOLUME EVAPORATION RATE VAPOR DENSITY SOLUBILITY IN WATER

9.26 lb/gal 1110 g/l 1.11 212 - 500 F 100 - 260 C Not Available 66 Slower than ether Heavier than air N.A. 9.0 VOLATILE ORGANIC COMPOUNDS (VOC Theoretical)

1.68 lb/gal 201 g/l Less Water and Federally Exempt Solvents 0.73 lb/gal 87 g/l Emitted VOC

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable CONDITIONS TO AVOID None known. INCOMPATIBILITY

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None known. HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Carbon Black is classified by IARC as possibly carcinogenic to humans (group 2B) based on experimental animal data, however, there is insufficient evidence in humans for its carcinogenicity.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and blood forming systems.

TOXICOLOGY DATA CAS No.	Ingredient N	ame			
111-76-2	2-Butoxyetha	nol LC50 LD50	RAT RAT	4HR	Not Available . 470 mg/kg
112-34-5	2-(2-Butoxye		ethanol RAT RAT	4HR	Not Available 5660 mg/kg
14807-96-6	Talc			4470	<b>.</b>
1.333-86-4	Carbon Black	LC50 LD50	RAT RAT	4HR	Not Available Not Available
1555 66-4		LC50 LD50	RAT RAT	4HR	Not Available Not Available

Section 12 -- ECOLOGICAL INFORMATION

COTOXICOLOGICAL INFORMATION No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

Section 13 -- Disposar Consideration:

WASTE DISPOSAL METHOD

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Incinerate in approved facility. Do not incinerate closed container.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

No data available.

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

R77111 page 5 

CAS No. CHEMICAL/COMPOUND

% by WT

Glycol Ethers

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.







# ; MATERIAL SAFETY DATA SHEET ;

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

: DARK RED OXIDE COLORANT PRODUCT NAME

IDENTIFICATION NUMBER: F2030 502 DATE PRINTED : 06/22/00

PRODUCT USE/CLASS : WATER-BASED COLORANT

SUPPLIER: Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, Illinois 60061 USA

Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, Illinois 60061 USA

MANUFACTURER:

(847) 367-7700 Rust-Oleum Corp. 8:00 AM-4:30 PM/24-hr Emer.Assist 8:00 AM-4:30 PM/24-hr Emer.Assist

(847) 367-7700 Rust-Oleum Corp.

PREPARER: L.J.W., PHONE: 847-816-2445, PREPARE DATE: 06/22/00

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS WT/WT % ITEM ----- CHEMICAL NAME ----- CAS NUMBER LESS THAN

01 DIETHYLENE GLYCOL METHYL ETHER 111-77-3 5.0 % 02 Ethanol, 2-Butoxy 111-76-2 5.0 %

----- EXPOSURE LIMITS -----ACGIH OSHA MEXICAN
ITEM TLV-TWA TLV-STEL PEL-TWA PEL-CEILING TLV-TWA SKIN N.E. N.E. N.E. N.E. 02 N.E. NO

(See Section 16 for abbreviation legend)

SECTION 3 - HAZARDS IDENTIFICATION

*** EMERGENCY OVERVIEW ***; Causes eye irritation. Use ventilation necessary to keep exposures below recommended exposure limits, if any.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Causes eye irritation.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: May cause skin irritation.

(Continued on Page 2)



PRIMARY ROUTE(S) OF ENTRY: INHALATION EYE CONTACT

SECTION 4 - FIRST AID MEASURES

FIRST AID - EYE CONTACT: Hold eyelids apart and flush with plenty of water for at lease 15 minutes. Get medical attention.

FIRST AID - SKIN CONTACT: Wash with soap and water. Get medical attention if irritation develops or persists.

FIRST AID - INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

FIRST AID - INGESTION: Swallowing less than an ounce will not cause significant harm. For larger amounts, do not induce vomiting, but give one or two glasses of water to drink and get medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: N.A.

LOWER EXPLOSIVE LIMIT: 1.4 % UPPER EXPLOSIVE LIMIT: 22.7 %

AUTOIGNITION TEMPERATURE: ND

EXTINGUISHING MEDIA: DRY CHEMICAL FOAM WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: FLASH POINT IS TESTED TO BE GREATER THAN 212 DEGREES F (>100 DEGREES C).

SPECIAL FIREFIGHTING PROCEDURES: Water may be used to cool closed containers to prevent buildup of steam.

(Continued on Page 3)



Product: F2030 502 Preparation Date: 06/22/00 SECTION 6 - ACCIDENTAL RELEASE MEASURES STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers. SECTION 7 - HANDLING AND STORAGE HANDLING: Wash thoroughly after handling. Wash hands before eating. Avoid contact with eyes. STORAGE: Keep from freezing. Keep container closed when not in use. +-----SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation. RESPIRATORY PROTECTION: A respiratory protection program that meets OSHA 1910.134 and ANSI 288.2 requirements must be followed whenever workplace conditions warrant a respirator's use. SKIN PROTECTION: Use gloves to prevent prolonged skin contact. Nitrile or Neoprene gloves may afford adequate skin protection. EYE PROTECTION: Use safety eyewear designed to protect against splash of liquids. OTHER PROTECTIVE EQUIPMENT: Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application. HYGIENIC PRACTICES: Wash thoroughly with soap and water before eating, drinking or smoking. SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES BOILING RANGE : 212 - 381 F VAPOR DENSITY : Is heavier than air ODOR : AMMONICAL ODOR THRESHOLD : ND APPEARANCE : LIQUID EVAPORATION RATE: Is slower than Ether SOLUBILITY IN H20 : SCLUBLE FREEZE POINT : NO VAPOR PRESSURE : NO PHYSICAL STATE : LIQUID SPECIFIC GRAVITY: 1,1190 pH @ 0.0 ⊁ : ND VISCOSITY COEFFICIENT OF WATER/OIL DISTRIBUTION: ND

The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon



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	Product:	F2030	502	Preparat	ion Date:	06/22/0	Page 4
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	(See Section	16 for	abbrevi	ation lege	nd)		
- <del>-</del>		SEC	TION 10	- STABILI	TY AND REA	ACTIVITY	
							d strong bases.
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C		e. When					n monoxide and acrid smoke and
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							cinued on Page 5)

SECTION 14 - TRANSPORTATION INFORMATION ;

DOT TECHNICAL NAME:

DOT HAZARD CLASS:

DOT UN/NA NUMBER:

PACKING GROUP:

RESP. GUIDE PAGE:

Product: F2030 502 Preparation Date: 06/22/00

; SECTION 15 - REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: AS FOLLOWS -

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

CERCLA - SARA HAZARD CATEGORY:

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

CHRONIC HEALTH HAZARD FIRE HAZARD

SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

U.S. STATE REGULATIONS: AS FOLLOWS -

NEW JERSEY RIGHT-TO-KNOW:

The following materials are non-hazardous, but are among the top five components in this product:

----- CHEMICAL NAME ------ CAS NUMBER RED IRON OXIDE PIGMENT DISPERSION 1309-37-1 WATER DEIONIZED 7732-18-5

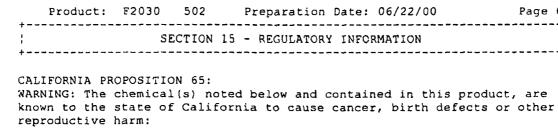
PENNSYLVANIA RIGHT-TC-KNOW:

The following non-hazardous ingredients are present in the product at greater than 3::

------ CHEMICAL NAME ------ CAS NUMBER RED IRON CXIDE PIGMENT DISPERSION 1309-37-1 WATER DEIONIZED 7732-18-5

(Continued on Page 6)





------ CHEMICAL NAME ------- CAS NUMBER
According to our raw material suppliers no Proposition 65 chemicals exist in this product above OSHA de minimus levels. All products comply with label provisions of Proposition 65.

INTERNATIONAL REGULATIONS: AS FOLLOWS -

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: D2B

SECTION 16 - OTHER INFORMATION

HMIS RATINGS - HEALTH: 1* FLAMMABILITY: 1 REACTIVITY: 0

PREVIOUS MSDS REVISION DATE: 10/23/97

REASON FOR REVISION: WHMIS CLASS ADDITION

LEGEND: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

: No Information.

The information contained on this MSDS has been shecked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

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#### MATERIAL SAFETY DATA SHEET

R33111 11 00

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION HMIS CODES PRODUCT NUMBER Health Flammability 0 R33111

PRODUCT NAME

RUST TOUGH* Water-Based Rust Preventive Enamel, Safety Green
UFACTURER'S NAME EMERGENCY TELEPHONE NO. MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY

(216) 566-2917

Diversified Brands

Cleveland, OH 44115 DATE OF PREPARATION 10-FEB-04

INFORMATION TELEPHONE NO. (800) 247-3266

Reactivity

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS CAS NO. INGREDIENT UNITS VAPOR PRESSURE 3 111-76-2 2-Butoxyethanol ACGIH TLV 20 ppm (skin) OSHA PEL 20 ppm (skin) 0.88 mm 112-34-5

2-(2-Butoxyethoxy)-ethanol ACGIH TLV Not Available OSHA PEL Not Available 0.06 mm

Titanium Dioxide 13463-67-7 ACGIH TLV

10 mg/m3 as Dust 10 mg/m3 Total Dust OSHA PEL OSHA PEL 5 mg/m3 Respirable Fraction

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.

SKIN: Prolonged or repeated exposure may cause irritation. INHALATION: Irritation of the upper respiratory system.

In a confined area vapors in high concentration may cause headache,

nausea or dizziness. SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.



page 2 R33111 

#### Section 4 -- FIRST AID MEASURES

Flush eyes with large amounts of water for 15 minutes. Get medical attention. EYES:

SKIN: Wash affected area thoroughly with soap and water.

Remove contaminated clothing and launder before re-use. INHALATION: If affected, remove from exposure. Restore breathing.

Keep warm and quiet.

Do not induce vomiting. INGESTION:

Get medical attention immediately.

## Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT

Not Applicable FLAMMABILITY CLASSIFICATION N.A. N.A.

Not Applicable EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Alcohol Foam UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode (due to the build-up of pressure) when

exposed to extreme heat

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus

should be used.

Water spray may be ineffective. If water is used, fog nozzles are referable. Water may be used to cool closed containers to prevent ressure build-up and possible autoignition or explosion when exposed to extreme heat.

## Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY Not Applicable

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

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R33111 

## Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

RECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction). VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product,

underlying paint, or the abrasive. PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2. EÝE PROTECTION

Wear safety spectacles with unperforated sideshields. 

## Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT SPECIFIC GRAVITY BOILING POINT MELTING POINT VOLATILE VOLUME EVAPORATION RATE VAPOR DENSITY SOLUBILITY IN WATER

9.05 1.09  $1084 \, \text{g/l}$ lb/gal 212 - 477 F 100 - 247 C Not Available 68 %

Slower than ether Heavier than air

N.A.

pH 9.0
VOLATILE ORGANIC COMPOUNDS (VOC Theoretical)
1.77 lb/gal 212 g/l Less Water and F
0.73 lb/gal 88 g/l Emitted VOC Less Water and Federally Exempt Solvents

______

## Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable CONDITIONS TO AVOID

None known. INCOMPATIBILITY

None known.

HAZARDOUS DECCMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

page 4 R33111 

## HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen. Prolonged overexposure to solvent ingredients in Section 2 may cause

adverse effects to the liver, urinary and blood forming systems.

Rats exposed to titanium dioxide dust at 250 mg./m3 developed lung cancer, however, such exposure levels are not attainable in the workplace.

TOXICOLOGY DATA

CAS No.	Ingredient Name
111-76-2	2-Butoxyethanol
	LC50 RAT 4HR Not Available
	LD50 RAT 470 mg/kg
112-34-5	2-(2-Butoxyethoxy)-ethanol
	LC50 RAT 4HR Not Available
	LD50 RAT 5660 mg/kg
13463-67-7	Titanium Dioxide
	LC50 RAT 4HR Not Available
	LD50 RAT Not Available
==========	

Section 12 -- ECOLOGICAL INFORMATION

# ECOTOXICOLOGICAL INFORMATION

No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Incinerate in approved facility. Do not incinerate closed container.

Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

No data available.

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

Glycol Ethers

CHEMICAL/COMPOUND % by WT % Element 6

page 5 R33111

CALIFORNIA PROPOSITION 65 WARNING: This product contains chemicals known to the State of alifornia to cause cancer. SCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory. ____________

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.



R24111

09 '00 Section 1 -- PRODUCT AND COMPANY IDENTIFICATION _____ PRODUCT NUMBER HMIS CODES 2 Health R24111 Flammability Reactivity PRODUCT NAME
RUST TOUGH* Water-Based Rust Preventive Enamel, Safety Blue
EMERGENCY TELEPHONE NO. (216) 566-2917 THE SHERWIN-WILLIAMS COMPANY Diversified Brands Cleveland, OH 44115 DATE OF PREPARATION INFORMATION TELEPHONE NO. 10-FEB-04 (800) 247-3266 _____ ______ Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS % by WT VAPOR PRESSURE CAS No. INGREDIENT UNITS 3 111-76-2 2-Butoxyethanol ACGIH TLV 20 ppm (skin) OSHA PEL 20 ppm (skin)

10 mg/m3 as Dust 10 mg/m3 Total Dust 5 mg/m3 Respirable Fraction OSHA PEL PEL OSHA Section 3 -- HAZARDS IDENTIFICATION

Titanium Dioxide

ACGIH TLV

3

ROUTES OF EXPOSURE
INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.

112-34-5

13463-67-7

2-(2-Butoxyethoxy)-ethanol ACGIH TLV Not Available OSHA PEL Not Available

SKIN: Prolonged or repeated exposure may cause irritation. INHALATION: Irritation of the upper respiratory system. In a confined area vapors in high concentration may cause headache,

nausea or dizziness.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive

skin exposure.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Continued on page 2



0.88 mm

0.06 mm

R24111 page 2

## Section 4 -- FIRST AID MEASURES

EYES:

SKIN:

Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use. If affected, remove from exposure. Restore breathing.

INHALATION: Keep warm and quiet.

INGESTION:

Do not induce vomiting.
Get medical attention immediately.

## Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT Not Applicable

LEL UEL N.A.

N.A.

FLAMMABILITY CLASSIFICATION

Not Applicable EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Alcohol Foam UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode (due to the build-up of pressure) when

exposed to extreme heat.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus

should be used.

Water spray may be ineffective. If water is used, fog nozzles are referable. Water may be used to cool closed containers to prevent ressure build-up and possible autoignition or explosion when exposed to extreme heat.

## Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent. 

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Applicable

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

R24111 page 3 

## Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

RECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist. Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction). VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product,

underlying paint, or the abrasive. PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2. EÝE PROTECTION

Wear safety spectacles with unperforated sideshields.

## Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT SPECIFIC GRAVITY BOILING POINT MELTING POINT VOLATILE VOLUME EVAPORATION RATE VAPOR DENSITY SOLUBILITY IN WATER

212 - 500 F 100 - 260 C Not Available 68 Slower than ether Heavier than air N.A.

8.82 lb/gal 1056 g/l 1.06

PH 9.0
VOLATILE ORGANIC COMPOUNDS (VOC Theoretical)
1.77 lb/gal 212 g/l Less Water and Federally Exempt Solvents
0.72 lb/gal 87 g/l Emitted VOC

## Section 10 -- STABILITY AND REACTIVITY

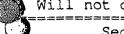
STABILITY -- Stable CONDITIONS TO AVOID None known INCOMPATIBILITY None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur



Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen. Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and blood forming systems.

Rats exposed to titanium dioxide dust at 250 mg./m3 developed lung cancer, however, such exposure levels are not attainable in the workplace.

TOXICOLOGY DATA

CAS No. Ingredient Name 111-76-2 2-Butoxyethanol LC50 RAT 4HR Not Available LD50 RAT 470 mg/kg 112-34-5 2-(2-Butoxyethoxy)-ethanol LC50 4HR Not Available RAT LD50 RAT 5660 mg/kg 13463-67-7 Titanium Dioxide Not Available Not Available LC50 RAT 4HR

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION No data available.



Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Incinerate in approved facility. Do not incinerate closed container.

Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution. 

Section 14 -- TRANSPORT INFORMATION

No data available.

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CHEMICAL/COMPOUND % by WT % Element CAS No.

Glycol Ethers



R24111 page 5

CALIFORNIA PROPOSITION 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

SCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

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#### MATERIAL SAFETY DATA SHEET

R83114 11 00

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION PRODUCT NUMBER HMIS CODES 2 Health Flammability R83111 Reactivity PRODUCT NAME

RUST TOUGH* Water-Based Rust Preventive Enamel, Lt. Machinery Gray

EMERGENCY TELEPHONE NO. THE SHERWIN-WILLIAMS COMPANY (216) 566-2917 Diversified Brands Cleveland, OH 44115 DATE OF PREPARATION INFORMATION TELEPHONE NO. (800) 247-3266 10-FEB-04 Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS CAS No. INGREDIENT UNITS VAPOR PRESSURE % by WT 2-Butoxyethanol ACGIH TLV OSHA PEL 3 111-76-2 20 ppm (skin) 20 ppm (skin) 0.88 mm 2-(2-Butoxyethoxy)-ethanol ACGIH TLV Not Available OSHA PEL Not Available 3 112-34-5 0.06 mm Titanium Dioxide 7 13463-67-7 10 mg/m3 as Dust 10 mg/m3 Total Dust 5 mg/m3 Respirable Fraction ACGIH TLV OSHA PEL OSHA PEL Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.

Prolonged or repeated exposure may cause irritation. Irritation of the upper respiratory system. SKIN:

In a confined area vapors in high concentration may cause headache,

nausea or dizziness. SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized. CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.



R83111 page 2 

## Section 4 -- FIRST AID MEASURES

______

Flush eyes with large amounts of water for 15 minutes. EYES:

Get medical attention.

SKIN:

Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use. If affected, remove from exposure. Restore breathing. INHALATION:

Keep warm and quiet. Do not induce vomiting. INGESTION:

Get medical attention immediately.

#### Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT LEL UEL Not Applicable N.A. N.A.

FLAMMABILITY CLASSIFICATION

Not Applicable EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Alcohol Foam UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode (due to the build-up of pressure) when

exposed to extreme heat.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus

should be used.

Water spray may be ineffective. If water is used, fog nozzles are referable. Water may be used to cool closed containers to prevent ressure build-up and possible autoignition or explosion when exposed to extreme heat.

## Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

## Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Applicable PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

page 3 R83111 

## Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

RECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist. Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction). VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product,

underlying paint, or the abrasive. PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2. EÝE PROTECTION

Wear safety spectacles with unperforated sideshields.

#### Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT SPECIFIC GRAVITY BOILING POINT MELTING POINT VOLATILE VOLUME EVAPORATION RATE VAPOR DENSITY SOLUBILITY IN WATER рΗ

1.08. 212 - 500 F 100 - 260 C Not Available 68 Slower than ether Heavier than air N.A. 9.0

8.95 lb/gal

1072 g/l

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical) 1.78 lb/gal 0.72 lb/gal 213 g/l Less Water and Federally Exempt Solvents 86 g/l Emitted VOC

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable CONDITIONS TO AVOID None known. INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

page 4 R83111

## AZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen. Prolonged overexposure to solvent ingredients in Section 2 may cause

adverse effects to the liver, urinary and blood forming systems.

Rats exposed to titanium dioxide dust at 250 mg./m3 developed lung cancer, however, such exposure levels are not attainable in the workplace.

TOXICOLOGY DATA

CAS No.	Ingredient Name
111-76-2	2-Butoxyethanol
	LC50 RAT 4HR Not Available LD50 RAT 470 mg/kg
112-34-5	2-(2-Butoxyethoxy)-ethanol
	LC50 RAT 4HR Not Available LD50 RAT 5660 mg/kg
13463-67-7	LD50 RAT 5660 mg/kg Titanium Dioxide
	LC50 RAT 4HR Not Available
	LD50 RAT Not Available

Section 12 -- ECOLOGICAL INFORMATION

# ECOTOXICOLOGICAL INFORMATION

No data available.

## Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Incinerate in approved facility. Do not incinerate closed container.

Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

No data available.

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

% by WT % Element CAS No. CHEMICAL/COMPOUND Glycol Ethers

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of alifornia to cause cancer.

SCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.



#### MATERIAL SAFETY DATA SHEET

R87111 13 00

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION PRODUCT NUMBER HMIS CODES Health Flammability R87111 Reactivity PRODUCT NAME

RUST TOUGH* Water-Based Rust Preventive Enamel, Dk. Machinery Gray
MANUFACTURER'S NAME

EMERGENCY TELEPHONE NO.

THE SHERWIN-WILLIAMS COMPANY Diversified Brands

Cleveland, OH 44115 DATE OF PREPARATION

10-FEB-04

INFORMATION TELEPHONE NO.

(216) 566-2917

(800) 247-3266

% by WT		COMPOSITION/INFORMATION ON INGREDIENTS INGREDIENT UNITS VAPOR PRESSURE
3	111-76-2	2-Butoxyethanol ACGIH TLV 20 ppm (skin) 0.88 mm OSHA PEL 20 ppm (skin)
3	112-34-5	2-(2-Butoxyethoxy)-ethanol ACGIH TLV Not Available OSHA PEL Not Available 0.06 mm
11	13463-67-7	Titanium Dioxide
0.2	1333-86-4	ACGIH TLV 10 mg/m3 as Dust OSHA PEL 10 mg/m3 Total Dust OSHA PEL 5 mg/m3 Respirable Fraction Carbon Black ACGIH TLV 3.5 mg/m3 OSHA PEL 3.5 mg/m3

## Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.

SKIN: Prolonged or repeated exposure may cause irritation. INHALATION: Irritation of the upper respiratory system.

In a confined area vapors in high concentration may cause headache, nausea or dizziness.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.



page 2 R87111 

## Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes.

Get medical attention.

SKIN: Wash affected area thoroughly with soap and water.

Remove contaminated clothing and launder before re-use. If affected, remove from exposure. Restore breathing. Keep warm and quiet.

INHALATION:

Do not induce vomiting. INGESTION:

Get medical attention immediately.

## Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT UEL N.A. N.A.

Not Applicable FLAMMABILITY CLASSIFICATION

Not Applicable EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Alcohol Foam UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode (due to the build-up of pressure) when

exposed to extreme heat.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus

should be used.

Water spray may be ineffective. If water is used, fog nozzles are referable. Water may be used to cool closed containers to prevent ressure build-up and possible autoignition or explosion when exposed to extreme heat. 

## Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Applicable PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

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page 3 R87111

## Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

RECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation. Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction). VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product,

underlying paint, or the abrasive. PROTECTIVE GLOVES

9.26 lb/gal 1.11

212 - 500 F

Wear gloves which are recommended by glove supplier for protection against materials in Section 2. EŸE PROTECTION

Wear safety spectacles with unperforated sideshields.

## Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT SPECIFIC GRAVITY BOILING POINT MELTING POINT VOLATILE VOLUME EVAPORATION RATE VAPOR DENSITY SOLUBILITY IN WATER

Not Available 66 Slower than ether Heavier than air N.A. PH
VOLATILE ORGANIC COMPOUNDS (VOC Theoretical)
1.68 lb/gal 202 g/l Less Water and F

1.68 lb/gal 0.71 lb/gal  $85 \, g/1$ 

Less Water and Federally Exempt Solvents Emitted VOC

 $1110 \, g/l$ 

100 - 260 C

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable CONDITIONS TO AVOID None known INCOMPATIBILITY None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

========

HAZARDOUS POLYMERIZATION

Will not occur 

#### Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Carbon Black is classified by IARC as possibly carcinogenic to humans (group 2B) based on experimental animal data, however, there is insufficient evidence in humans for its carcinogenicity.

Prolonged overexposure to solvent ingredients in Section 2 may cause

adverse effects to the liver, urinary and blood forming systems.

Rats exposed to titanium dioxide dust at 250 mg./m3 developed lung cancer, however, such exposure levels are not attainable in the workplace.

TOXICOLOGY DATA CAS No.	Ingredient Name		
111-76-2		4HR	Not Available
112-34-5	LD50 RAT 2-(2-Butoxyethoxy)-ethanol LC50 RAT	4HR	470 mg/kg Not Available
13463-67-7	LD50 RAT Titanium Dioxide	41110	5660 mg/kg
	LD50 RAT	4HR	Not Available Not Available
1333-86-4	Carbon Black LC50 RAT 4 LD50 RAT		Not Available Not Available

Section 12 -- ECOLOGICAL INFORMATION

COTOXICOLOGICAL INFORMATION No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Incinerate in approved facility. Do not incinerate closed container.

Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

No data available.

Continued on page 5

87111 page 5

Section 15 -- REGULATORY INFORMATION

ARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No. CHEMICAL/COMPOUND

% by WT % Element

Glycol Ethers

6

CALIFORNIA PROPOSITION 65

______

WARNING: This product contains chemicals known to the State of California to cause cancer.
TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.



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EPAHO081002290

7050VD

Tanx# HBTU940005-8

18,820 MT

Tanx# HOTU 1415 03-5

Tanx# HOTU 1415 03-5

31,940 MT

300L

Derfille

SUZ





#### PRICING ADDENDUM TO WASTE TRANSPORTATION, DISPOSAL AND RECYCLING AGREEMENT

US Ecology Idaho, Inc P.O. Box 400

20400 Lemley Road Grand View, ID 83624 (800) 274-1516, (208) 834-2275 Fax (208) 834-2919 EPA ID#: IDD073114654

US Ecology Nevada, Inc.

P.O. Box 578 Highway 95, 11 miles South of Beatty

Beatty, NV 89003 (800) 239-3943, (775) 553-2203

Fax (775) 553 -2125 EPA ID #: NVT330010000 ✓ US Ecology Texas, Inc.

P.O. Box 307

3.5 Miles on Petronila Road Robstown, TX 78380 (800) 242-3209, (361) 387-3518

Fax (361) 387-0794 EPA ID #: TXD069452340

Date: 07/27/2009

Addendum #: 131

Contract#: T03053

Contract Date: 11/20/2002

WPQ REFERENCE: 090065857

0

Waste Description: HAZARDOUS GREASE

**EPA Waste Codes** 0005

Generator VAM-PTS

19210 HARDY RD

HOUSTON

77073 TX

EPA# TXD991304155

Customer: CES ENVIRONMENTAL SERVICES INC

25971

Address: 4904 GRIGGS RD.

HOUSTON

TX 77021

Contact: MORGAN MCCARLEY

Phone:

(713) 676 1460

Fax: ( )

Invoice Address

4904 GRIGGS RD

HOUSTON

TX

77021

Contact: JUANITA THOMAS

Phone: (713) 676 1460

Fax: (713) 676 1676

Minimum Charge

Group # Pricing

STABILIZATION

FFF

Unit Price Units

\$225.00 CUBIC YARD BOX

\$8.00 TONS(2000 LBS)

#### TERMS OF AGREEMENT (IF ANY):

PRICING ABOVE INCLUDES DISPOSAL AT US ECOLOGY TEXAS, INC. AND APPLICABLE STATE OF TEXAS DISPOSAL FEES/TAXES. PAYMENT SHALL BE MADE IN CASH AT THE TIME WASTE IS ACCEPTED FOR DISPOSAL UNLESS CREDIT HAS BEEN APPROVED.

- Bulk waste will be billed by tons or cubic yards (i.e. material weighing less than 2,000 lbs. per cubic yard), whichever is greater, as determined by Company.
- Prices set forth in this Addendum will increase 2.0% annually on each anniversary date, except taxes if billed as a separate line item.
- Customer acknowledges that Company may, at its sole discretion, ship Waste to an affiliated US Ecology entity for treatment, disposal and/or recycling.
- PRICING DOES NOT INCLUDE TRANSPORTATION AND ASSUMES COMPLETION OF REQUIRED PROFILES AND PRICING TERMS, AND SHIPMENT TO USET WITHIN 90 DAYS.
- 10% Energy, Insurance and Recovery fee.

THIS ADDENDUM AND THE ATTACHED TECHNICAL AND TRANSPORTATION REQUIREMENTS ADDENDUM ARE INCORPORATED INTO AND ARE A PART OF THE WASTE TRANSPORTATION, DISPOSAL AND RECYCLING AGREEMENT BETWEEN CUSTOMER AND COMPANY AND ARE NOT BINDING UNLESS AND UNTIL SIGNED BELOW BY AN AUTHORIZED REPRESENTATIVE OF COMPANY, PRICES IN THIS ADDENDUM ARE SUBJECT TO ARTICLE XVIII OF THE AGREEMENT AND ARE VALID ONLY AT FACILITY INDICATED BELOW.

CUSTOMER:

Signature:

Printed Name and

FACILITY:

Signature:

Printed Name and Title: Catherine A Skurow General Manager

Date: 07/27/2009

#### Exhibit A

to

#### PRICING ADDENDUM TO WASTE TRANSPORTATION AND DISPOSAL AGREEMENT

Customer: CES ENVIRONMENTAL SERVICES INC

Contract #: T03053

Contract Date: 11/20/2002 Addendum #: 131

Addendum Date: 07/27/2009

STANDARD PRICING FOR:
Group # Waste Stream(s)

Generator Name

State Waste Code(s)

1 090065857-0 HAZARDOUS GREASE

VAM-PTS

0008609K

If you have any questions regarding this material please call KEVIN WITTMER

(502) 425 1801

Jill Albert

in Customer Service Department at (800) 242 3209

ext. 255

## TECHNICAL AND TRANSPORTATION REQUIREMENTS ADDENDUM TO WASTE TRANSPORTATION AND DISPOSAL AGREEMENT

Page 1 of 1

Addendum #: 131 Contract #: T03053

#### **TECHNICAL REQUIREMENTS**

- 1. Customer must have a confirmed scheduled delivery date and time three days prior to ship date. Please contact Company Customer Service Department during regular operacting hours Monday - Friday for an appointment time.
- 2. The Waste Stream Identification Number (WSID) must appear on each manifest paper required by EPA or DOT. Waste shipped in drums, bags, or boxes must have the WSID clearly marked on the top and one side of each container.
- 3 Bulk trucks, intermodal boxes and roll-off boxes must be lined and self-unloading by their own equipment. If the waste does not self-unload, the container will be unloaded utilizing excavators or other appropriate equipment at an additional charge and Company assumes no liability for damage to tractor, truck beds, intermodal boxes, roll-off boxes or associated equipment.
- 4 Company does not provide decontamination of trucks or other containers and will not provide certification for decontamination unless requested (additional charges will apply). With prior approval and at additional Customer cost, tanker trucks can be rinsed out with water if the material can be easily removed.
- 5 Drivers delivering material to Company must be clean shaven and have all required PPE (appropriate respirators and cartridges, eye protection, foot protection and disposable protective outer garments) and abide by all DOT, OSHA and Company safety policies. Please contact your Customer Service Representative if you need assistance with appropriate PPE.
- 6. Waste identified as having non-regulated light ballasts and capacitors are subject to the following: Company must give prior approval and each individual item must have manufacturer markings identifying the item as being non-PCB. Otherwise, Company may consider all PCB light ballasts and small capacitors to be TSCA regulated.
- 7. Containerized waste must be shipped in DOT approved containers and is subject to the following requirements: Drums must weigh less than 800 lbs.; Bags must be load rated, double stitched, equipped with integral lift straps and weigh less than 5,600 lbs.; Palletized Boxes exceeding thirty-six(36) inches in any dimension will be subject to surcharge and must weigh less than 2,800 lbs. Non-metal drums may require additional charges. Friable Asbestos must be double bagged, wetted and labeled per the requirements of 40 CFR Part 61, Subpart M. All NESHAPS information must be recorded on the manifest. Floor dry may be added to avoid the formation of free liquids. Debris requiring treatment must meet the definition in 40 CFR §268.2, must not be individually packaged and must be self-unloading if bulk shipped.

#### TRANSPORTATION TERMS & CONDITIONS

- 1 All transportation taxes and fees are the responsibility of the Customer and will be billed as a separate item, if not already included in the quoted rate.
- Any fuel surcharges added by transporter(s) are the responsibility of the Customer and will be included on Company invoices.
- 3. Customer is responsible for proper loading, lining, tarping and weighing of vehicles or rail cars. Any overloads or subsequent costs from overloads are the responsibility of the Customer.
- 4 Customer is responsible for proper manifesting, marking, labeling, and placarding as required by law.
- Customer is responsible for payment of demurrage and transportation delay costs other than those caused by the transporter or Company, its agents, servants, or employees.
- 6. Customer is responsible for proper and safe handling of all rail containers, gondolas or other transportation equipment while on the Customer's site.
- 7 Customer is responsible for payments of costs for damage to equipment caused by Customer and/or its contractors, agents or employees. Customer must notify Company of any damage to equipment caused by Company prior to leaving Company's facilities. Claims made after departure cannot be verified or paid.
- 8 Unless otherwise specified, truck shipments will be subject to one hour loading and one hour unloading free time; Customer will be charged per hour for delays beyond the allowed free time.
- 9. All costs incurred by Company as a result of the failure of Customer to perform or adhere to the foregoing responsibilities and requirements will be due and payable by Customer to Company.
- 10. Customer is responsible for payment at the rates specified herein for any equipment provided by Company pursuant to this Addendum, but not used. Intermodal and roll-off containers will be charged at the same rate as if the container was fully loaded with a minimum of twenty (20) tons, or the rated container capacity, whichever is more. Standard end-dump trucks will be charged as if fully loaded with twenty-two (22) tons. Truck and pup units will be charged as if loaded with thirty (30) tons.

#### **ADDITIONAL RAIL TERMS & CONDITIONS**

- Gondolas with a legal gross capacity of 286,000 lbs will be subject to a minimum payload of 106 tons. Gondolas with a legal gross capacity of 263,000 lbs will be subject to a minimum payload of ninety-six (96) tons.
- 2. If gondota cars are ordered and not used, they may be billed as if they were full with 106 tons each. If gondota cars are ordered and not shipped within thirty (30) days, the gondota cars will need to be released and reordered if needed for other projects.
- 3. Waste shipped in boxcars or trailers must be packaged in drums, boxes or other suitable containment and be properly blocked and braced for shipment.
- 4. Five free days will be allowed for gondolas once the equipment is spotted at the project site or Customer has been notified that empty equipment can be delivered to the project site. Demurrage is \$60 per day per railcar and will be assessed in the event gondola loading has not started within five days of the date for which cars were ordered and placed. This fee will continue on a daily basis until gondolas are loaded and released for shipment.
- 5. Fuel adjustment surcharges will be billed based on the servicing railroad's index (i.e. per gallon of diesel fuel or per barrel of West Texas Intermediate Crude Oil) and charged directly to Customer.
- 6. Request for rail equipment must be made in writing by Customer prior to the shipment for placement of empty gondolas forty-five (45) days in advance.

- HUNT	_
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entory Date	Drum ID	NON-NUZ	Acc Date	uarl Vabel 1	d
5/24/2009	5401	2702	6/24/2009		1
5/24/2009	5402	2702	6/24/2009		2
5/24/2009	5403	2704	6/24/2009	1	3
5/24/2009	5404	2704	6/24/2009		4
5/24/2009	5405	090060742	5/29/2009		<u>.</u>
5/24/2009	5406	2702	5/11/2009		6
5/24/2009	5407	2702	6/4/2009		7
5/24/2009	5408	2702	6/4/2009		
5/24/2009	5409	0040260484	6/2/2009		9
5/24/2009	5410	0040260484	6/2/2009	-	10
	5411	0040260484	6/1/2009	**needs to be changed	
5/24/2009 5/24/2009	5412	0040260484	6/1/2009	ato 330285	12
5/24/2009	5412	2704	6/4/2009	(COAACCAA)	13
5/24/2009		2704			
6/24/2009	5414		6/4/2009	(alaska and a same to	14
/24/2009	5415	<del>0040260</del> 484	6/24/2009	**needs to be changed	15
/24/2009	5416	0040260484	6/11/2009	*&to/330285	16
/24/2009	5417	19	6/24/2009	no label	17
/24/2009	5418	1 (	6/24/2009	no label	18
/24/2009	5419		6/24/2009	no label	19
24/2009	5420	2702	6/24/2009		20
/24/2009	5421	2702,	6/24/2009		21
/24/2009	5422	2702	6/24/2009		22
24/2009	5423	2702 、	6/24/2009		23
/24/2009	5424	2755-	6/24/2009		24
24/2009	5425	2755 \	6/24/2009		25
4/2009	5426	3	6/24/2009	no label	26
24/2009	5427	2755 ·	6/24/2009		27
24/2009	5428	2755 .	6/24/2009		28
onal invento	ry on 7/1/09 showed	no new waste drums accur	mulated		
29/2009	5429	2702	7/29/2009		29
29/2009	5430	2702	7/29/2009		30
29/2009	5431	2704	7/29/2009		31
(29/2009	5432	2704	6/4/2009		32
/29/2009	5433	2704	7/29/2009		33
29/2009	5434	090060742	6/30/2009		34
29/2009	5435	2704 +	6/1/2009	labeled "lucite rags"	35
/29/2009	5436	2704、	7/17/2009		36
29/2009	5437	2704 、	6/4/2009		37
/29/2009	5438	2704	6/4/2009		38
29/2009	5439	2704 、	6/9/2009		39
/29/2009	5440	2702	6/3/2009		40
29/2009	5441	2702	6/9/2009		41
/29/2009	5442	2704	7/29/2009		42
29/2009	5443	2704	7/29/2009		43
/29/2009	5444	330285	7/29/2009	5 gal pails	44
29/2009	5445	330285	7/29/2009	5 gal pails	45
29/2009	5446	330285,	7/29/2009	5 gal pails	46
/29/2009	5447	330285	7/29/2009	5 gal pails	47

Inventory Date	Drum ID	Profile #	Acc Date	Note	d
7/29/2009	5448	2652	7/29/2009		48
7/29/2009	5449	2652	7/29/2009		49
7/29/2009	5450	2868	7/29/2009		50
7/29/2009	5451	2702	7/25/2009		51
7/29/2009	5452	3001	7/29/2009	· · · · · · · · · · · · · · · · · · ·	52
7/29/2009	5453	2755	7/29/2009		53
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#### Jennifer Rust

From:

Joy Baker

Sent:

Wednesday, July 29, 2009 11:40 AM

To:

Jennifer Rust

Subject: Attachments: delta waste inventory Delta Waste Inventory.xls

Durim will need to go out and ID and label those drums that do not have IDs on this spreadsheet. Please send him with extra hazardous labels and extra corrosive and flammable stickers so that he can complete them there.

The beginning of the inventory, I was planning on sending the lab waste to safety kleen, but they totaling screwed me the last shipment, so I would rather send to PCI. Please have the driver note that the drums (they are labeled with the drum number circled and the profile number) need to be changed to the appropriate PCI profile.

#### Thanks!

Joy Baker

CES Environmental Services, Inc
Port Arthur Chemical and Environmmental Services, LLC

mobile: 281-701-8511 fax: (713) 748-8664

jbaker@cesenvironmental.com

<u>Ces</u> 0494	TEO
2702 - HTT LHT III	
2704 - MI MI	
2755 - HM 30	$\nu$
2452-11 BOL	Frejoil tho
2868-1 BOL	enert
3001-1 80	ECRA empty (89419)
22 2 118118	
2707 - JUX JUX JUX 2704 - JUX JUX JUX	7 60742 11
2755 - JUI	
2052-11	Umystery
38087	Driver-
PCL /	labelall
330 285 - WI JM	Non-Haz
	only
Plan   Squad	
Breitoner (811)	330285 IHI III
	Mu. III
unat are 5417, 1891	9
	<b>FD</b> 4

# CES Environmental Services, Inc.

## **JOB INFORMATION PROFILE**

Folder ID :	Delta (Delta-Deer Park) Non-bulk Disposal			
Customer	: Delta Companies Group	2	Driver:	
Address	: 334 Tidal Road		Helper:	
City,State,Zip	: <u>Deer Park TX , 77536</u>		Date: 7/31/2009	Time:
CES Contact	Date: 7/31/2009 Time: Truck # Trailer #  Description:  Intact: Tommy Boyette @ (281) 680-4108  and label the following:  IH material - These are the only drums you will need to label - the rest should already be labeled stickers   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security   Security			
Job Desc	cription :			
Site contact: To	ommy Boyette @ (281) 68	0-4108		
Pick up and lab	oel the following:			
W/ CES stickers LINE 1: 14 drur LINE 2: 13 dru CES for RECYC LINE 1: 5 drum LINE 2: 2 drum LINE 3: 1 drum LINE 4: 1 drum Manifest to TEC LINE 1: 2 drum Manifest to PCI LINE 1: 10 drur Deliver to CES ID #:	ms of amine rags ms of acid rags  CLE s of syn fluids s of Fire / Oil water of Empty containers s of viscosity improver  CO s of Flammable solids  ms of acetone / toluene  Houston & check into proces	[CES#2702] ~ 8942 [CES#2704] ~ 9942 [CES#2755] [CES#2652] [CES#3001] [CES#2868] [09-006-0742] & 9422 [330285] & 9422	3	e labeled
OPERATION HO	OURS: SHIPPING	RECEIVING CONTACT:	AFTER HOURS CON	ITACT:
Open :	06:00 AM Nar	ne: Tim Menard	Name:	Tim Menard
Close:	04:30 PM Numb	er: (281) 680-4113	Number:	(713) 819-3172
RECEIVIN	NG INFORMATION			
OPERATION HO	OURS: SHIPPING	RECEIVING CONTACT:	AFTER HOURS CON	ITACT:
Open :	05:00 AM Nar	ne: CES	Name:	
Close:	08:00 PM Numb	er: (713) 676-1460	Number:	(281) 701-8511
	DER NUMBER REQUIRED: IF YES, P.O. #:	YES NO		
PPE REQUIRED:	YES NO	HACSC R	EQUIRED: YES	✓ NO
IF YES, W				⊕ NO
II 163, W	THE THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF T	في عليه المراوعة والمناوعة والمناوعة والمناوعة والمناوعة المناوعة المناوعة المناوعة المناوعة المناوعة المناوعة	YES, WHAT?	

CAN CUSTOMER LOAD US:	<b>✓</b> YES	□ NO	WASHOUT ANTICIPATED:	☐ YES 🗸 NO
ROPPER PUMP:	YES	<b>✓</b> NO	<b>BOX LINER REQUIRED</b>	☐ YES 🗸 NO
LOADING/UNLOADING TRAILER TYPE:	☐ REAR ☐ DOES I	BELLY NOT MATTER		
BOX NUMBER:	an en wasting to our moves the openior re-	Augusto 2001 - S. Groveski a concele artificia a accessorate de l'accessorate		
CES OWNS BOX:	YES	□ NO	CUSTOMER OWNS BOX: YES NO	
CES RENTED BOX:	YES	☐ NO	CUSTOMER RENTED BOX: YES NO	
AMOUNT OF HOSE NEEDED:	N/A		DRUM DOLLY NEEDED: YES	NO
SIZE:	N/A		PALLET JACK NEEDED: YES	NO
LOADING FROM (i.e. Tank):	N/A		CAN CUSTOMER LOAD WITH FORKLIFT	☐ YES 🗹 NO
SIZE OF FITTING:			Note: Pallets are only good if they dr.	
TYPE OF FITTING:			trailer. Otherwise, it is a huge and pa driver. If pallets are used, then the d wrapped.	
FIELD SERVICE WORK  HELPER REQUIRED: YES  EQUIPMENT NEEDED:  Trailer must be dock height	<b>☑</b> NC	) IF YES	HOW MANY?	

Wednesday, July 29, 2009

Page 2 of 2

### **POLLUTION CONTROL INDUSTRIES**



4343 KENNEDY AVE; EAST CHICAGO, IN 46312 Ph: 800-388-7242 / Fx: 219-397-6411 5485 VICTORY LANE; MILLINGTON, TN 38053 Ph: 888-724-8366 / Fx: 901-353-9471

#### POLLUTION CONTROL INDUSTRIES WASTE STREAM RECERTIFICATION

All waste streams not received by Pollution Control Industries for longer than one year are considered inactive and must recertified before shipment.

	STE STREAM NUMBER 9910219 H CURRENT PROCESS CODE HOLL
	erator GATX (Hearne) Billing Name CES Environmental Sucs. Inc.
	ress 18012 Hwy 103 Billing Add 4904 Grices Rd
	Hearne State of City Hoviton State TX
Phor	ne: Phone: 713-676-1460
****	ISE Check the Appropriate FALL PROFILES WITH ORIGINAL APPROVAL DATE PRIOR TO FEBRUARY 1, 2003 MUST HAVE COMPLETED PROFILE CLUDED WITH RECERT FORM.
	ALL PROFILES THAT HAVE HAD CHANGES TO PROCESS GENERATING OR WASTE CHARACTERIZATIONS MUST HAVE MPLETED PROFILE WITH RECERTIFICATION FORM
1. H	Has the waste stream change since the original approval??? (Changes can include: Process generating, physical or chemical characteristics, or RCRA or DOT characterization) Yes
2. V	Was the original approval date prior to February 1, 2003?
li	f the answer was 'Yes' to EITHER questions 1 or 2 then please forward current copy of the waste waste stream profile with this recertification statement
	f the answer was 'No' to BOTH questions 1 and 2 then certify this waste and it's process generating, RCRA and DOT classification, and chemical and physical properties have remained unchanged since the original approval.  Yes No
that	ereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability. Any changes thave occurred to this waste stream have been disclosed and a copy of the current profile provided. No deliberate or willful sissions of composition or properties exist and that all known or suspected hazards have been disclosed.
Nar	me (Print): Moragan McCarley Title: AGENT FOR GATX (HEARNE)
Aut	horized Signature: Date:

## American Ecology Corporation

#### PRICING ADDENDUM TO WASTE TRANSPORTATION AND DISPOSAL AGREEMENT

US Ecology Idaho, Inc

P.O. Box 400

10.5 miles NW on Hwy 78, Lemley Road Grand View, ID 83624 (800) 274-1516, (208) 834-2275

Fax (208) 834-2919

EPA ID#: IDD073114654

US Ecology Nevada, Inc.

P.O. Box 578

Highway 95, 11 miles South of Beatty

Beatty, NV 89003

(800) 239-3943, (775) 553-2203

Fax (775) 553 -2125 EPA ID #: NVT330010000 US Ecology Texas, Inc.

P.O. Box 307

3.5 Miles on Petronila Road

Robstown, TX 78380

(800) 242-3209, (361) 387-3518

Fax (361) 387-0794

EPA ID #: TXD069452340

Date: 04/14/2008

Addendum #: 73

- 0

Contract #: T03053

Contract Date: 11/20/2002

WPQ REFERENCE: 090060742

Waste Description: HAZARDOUS RAGS & DEBRIS

**EPA Waste Codes** 

800Ü

U122

U162

U223

Customer: CES ENVIRONMENTAL SERVICES INC

Minimum

Charge

25971

Address: 4904 GRIGGS RD.

HOUSTON

TX 77021

Contact: GARY BRAUCHMAN

Phone: (713) 676 1460

Fax: ( )

**Generator DELTA CHEMICAL SERVICES** 

334 TIDAL ROAD

DEER PARK

TX

77536

EPA# TXR000029199

invoice Address

4904 GRIGGS RD

HOUSTON

TX

77021

Contact: JUANITA THOMAS

Phone: (713) 676 1460

Fax: (713) 676 1676

PRICING

Group #

Unit Price Units

FEE

\$125.00 55 GALLON DRUM

\$30.00 TONS(2000 LBS)

#### TERMS OF AGREEMENT (IF ANY):

MICROENCAPSULATION

PRICING ABOVE INCLUDES DISPOSAL AT US ECOLOGY TEXAS, INC. AND APPLICABLE STATE OF TEXAS DISPOSAL FEES/TAXES. PAYMENT SHALL BE MADE IN CASH AT THE TIME WASTE IS ACCEPTED FOR DISPOSAL UNLESS CREDIT HAS BEEN APPROVED.

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CUSTOMER:

Signature

Printed Name a

**FACILITY:** 

Signature:

Printed Name and Title: Kenneth Knibbs General Manager

04/15/2008

#### Exhibit A

to

#### PRICING ADDENDUM TO WASTE TRANSPORTATION AND DISPOSAL AGREEMENT

Customer: CES ENVIRONMENTAL SERVICES INC

Contract #: T03053 Contract Date: 11/20/2002 Addendum #: 73

Addendum Date: 04/14/2008

STANDARD PRICING FOR:

Group # Waste Stream(s) 090060742

1

0 HAZARDOUS RAGS & DEBRIS

State Waste Code(s)

0011409H

006409H

If you have any questions regarding this material please call KEVIN WITTMER

(502) 425 1801 at

or Jill Albert

in Customer Service Department at (800) 242 3209

ext. 255

## TECHNICAL AND TRANSPORTATION REQUIREMENTS ADDENDUM TO WASTE TRANSPORTATION AND DISPOSAL AGREEMENT

Page 1 of 1

Addendum #: 73 Contract #: T03053

#### **TECHNICAL REQUIREMENTS**

- Customer must have a confirmed scheduled delivery date & time three (3) days prior to ship date. Please contact the Company Customer Service Department during regular operating hours Monday - Friday for an appointment time.
- The Waste Stream Identification Number (WSID) must appear on each manifest paper required by EPA or DOT. Waste shipped in drums, bags, or boxes must have the WSID clearly marked on the top and one side of each container.
- 3. Bulk trucks, intermodal boxes, and roll-off boxes must be lined and self-unloading by their own equipment. If the waste does not self-unload, the container will be unloaded utilizing excavators or other appropriate equipment at an additional charge and Company assumes no liability for damage to tractor, truck beds, intermodal boxes, roll-off boxes, or associated equipment.
- 4. Company does not provide decontamination of trucks or other containers and will not provide certification for decontamination unless requested (additional charges will apply). With prior approval and at additional Customer cost, tanker trucks can be rinsed out with water if the material can be easily removed.
- 5. Drivers delivering material to Company must be clean shaven and have all required PPE (appropriate respirators & cartridges, eye protection, foot protection, & disposable protective outer garments) and abide by all DOT, OSHA, and Company safety policies. Please contact your Customer Service Representative if you need assistance on appropriate PPE.
- Waste identified as having non-regulated light ballasts and capacitors are subject to the following: Company must give prior approval and each individual
  item must have manufacturer markings identifying the item as being non-PCB. Otherwise, Company may consider all PCB light ballasts and small
  capacitors to be TSCA regulated.
- 7. Containerized waste must be shipped in DOT approved containers, and subject to the following requirements: Drums must weigh less than 800 lbs.; Bags must be load rated, double stitched, equipped with integral lift straps, and weigh less than 5,600 lbs.; palletized boxes exceeding 36 inches in any dimension will be subject to surcharge and must weigh less than 2,800 lbs. Non-metal drums may require additional charges. Friable Asbestos must be double bagged, wetted and labeled per the requirements of 40 CFR Part 51, Subpart M. All NESHAPS information must be recorded on the manifest. Floor dry may be added to avoid the formation of free liquids. Debris requiring treatment: must meet the definition in 40 CFR §268.2, must not be individually packaged and must be self-unloading if bulk shipped.

#### TRANSPORTATION TERMS & CONDITIONS

- 1. All transportation taxes and fees are the responsibility of the Customer and will be billed as a separate item, if not already included in the quoted rate.
- 2. Any fuel surcharges added by transporter(s) are the responsibility of the Customer and will be included on Company invoices
- Customer is responsible for proper loading, lining, tarping and weighing of vehicles or rail cars. Any overloads or subsequent costs from overloads are the responsibility of the Customer.
- 4. Customer is responsible for proper manifesting, marking, labeling, and placarding as required by law
- Customer is responsible for payment of demurrage and transportation delay costs other than those caused by the Transporter or Company, its agents, servants, or employees
- 6. Customer is responsible for proper and safe handling of all rail containers, gondolas or other transportation equipment while on the Customer's site.
- 7. Customer is responsible for payments of costs for damage to equipment caused by Customer and/or its contractors, agents or employees. Customer must notify Company of any damage to equipment caused by Company prior to leaving Company's facilities. Claims made after departure cannot be verified or paid.
- 8. Unless otherwise specified, truck shipments will be subject to 1 hour loading and 1 hour unloading free time; Customer will be charged per hour for delays beyond the allowed free time.
- All costs incurred by Company as a result of the failure of Customer to perform or adhere to the foregoing responsibilities and requirements will be due and payable by Customer to Company
- 10. Customer is responsible for payment at the rates specified herein for any equipment provided by Company pursuant to this Addendum, but not used. Intermodal and roll-off containers will be charged at the same rate as if the container was fully loaded with a minimum of 20 tons, or the rated container capacity, whichever is more. Standard end-dump trucks will be charged as if fully loaded with 22 tons. Truck & pup units will be charged as if loaded with 30 tons.

#### **ADDTIONAL RAIL TERM & CONDITIONS**

- Gondolas with a legal gross capacity of 286,000 lbs will be subject to a minimum payload of 105 tons. Gondolas with a legal gross capacity of 263,000
  lbs will be subject to a minimum payload of 96 tons.
- 2. If gondola cars are ordered and not used, they may be billed as if they were full with 106 tons each. If gondola cars are ordered and not shipped within 30 days, the gondola cars will need to be released and reordered if needed for other projects
- Waste shipped in boxcars or trailers must be packaged in drums, boxes or other suitable containment and be properly blocked and braced for shipment.
- 4. Five free days will be allowed for gondolas once the equipment is spotted at the project site or Customer has been notified that empty equipment can be delivered to the project site. Demurrage is \$60 per day per railcar and will be assessed in the event gondola loading has not started within 5 days of the date for which cars were ordered and placed. This fee will continue on a daily basis until gondolas are loaded and released for shipment.
- Fuel adjustment surcharges will be billed based on the servicing railroad's index (i.e. per gallon of diesel fuel, or per barrel of West Texas Intermediate Crude Oil) and charged directly to Customer.
- 6. Request for rail equipment must be made in writing by Customer prior to the shipment for placement of emply gondolas.

## Rineco

No. 0619 Broker Profile #:

Certification Number:

Waste Material Profile Sheet Annual Re-Certification Form

153,708

P. 3/4

	Fnx: (501) 776-2864	Certification Number	er: 153,708	
Account Rep	Michael Jaskowiak	Control#	0510-13730	
Region	S02	Recert. Date	06/25/2009	
Profile Specialist	Misty Duncan	Expiration Date	06/25/2010	
Generator Name	National Oil Well (Monoflo)	-		
Facility Address	16503 Park Row	Walk Through	No No	
		Sample	No	
	Houston, TX 77084	USEPA ID#	TXD988086831	
Technical Contact	Gary Brauckman	Phone	713-676-1460	
24-Hour Emergency	Gary Brauckman	Fax	713-676-1676	
Confact	•	24-Hour Phone	713-676-1460	
Material Name	Paint Related Material	2	713-070-1 100	
	tify this waste stream? If no, skip the following questions and return this	Current State	tus Yes	No
form to Rinces.		Yca		
Z. If as the process gener	rating this waste changed?	No		
	seteristics of the weste changed, such as a change in the physical state,			
[	of EPA waste codes, or a change in the material composition/concentration?	No	. 🗀	
	or questions 2 and 3, please explain below. Also, utilize this space to indicate any changes or updates.Cha ission of a new profile and sample of the waste stream.	anges		
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				_
Proper Shipping Nam	waste Paint Related Material			
<u> </u>				
Hazard Class and Div	•	UN or NA; UN12	63	
Packaging Group:	II	ER Guide Page #: 128		
RQ No _Waste ID Numbers	RQ Comments;			
D001 F005	<del></del>		· · · · · · · · · · · · · · · · · · ·	
0035 Universal			•	
F003 Waste				
		~ )	30,0074	
Laboratory  Comments	Approval Status: Approved	Fuel 1	Ces Low BTU	No
00	Date: 6/25/2009	HAL ]	No Emptles	No
)		Aerosols	 No	
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Regulatory	Approval Status: Approved	Oze	one Depletor	No
Comments	Date: 6/25/2009		-	
	2010. 0/Z3/Z003	NESHAP Specia	l Handing 1	No
			-	
System Type:	H061 Form Typ			<del></del>
	"I hereby certify that all information submitted in this and attached docum	nents is correct to the best of my kno	wledge."	
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. بر	N. Mas - 1	CC ~ MAN	_	
Signaturo	From Moquent Title H	SE supervisor		
Signature - Printed Name	Russ Moncriet Date	58 supervisor 7/29/09		

Control #1

Attachment

#### Full Profile Component Listing

Components	<u>Min</u> Concentration	Max Concentration	Actual Concentration	PPM
Xylene	10.00	20.00		
Methyl Ethyl Kelone	10.00	20.00		
Toluene	10.00	20.00		
Mineral Spirits	10.00	20.00		
Paint Pigments	60.00	80.00		

Class I wast

## Laboratory Analysis Report

Total Number of Pages:

Job ID: 09070273



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name: 0709-11

Report To:

Client Name:

**CES Environmental** 

Miles Root

Client Address: 4904 Griggs Rd

City, State, Zip: Houston, Texas, 77021

P.O.#.: 0709-11

Sample Collected By: Miles Root

Date Collected: 07/10/09

A&B Labs has analyzed the following samples...

Client Sample ID

Matrix

A&B Sample ID

0709-11

Soil

09070273.01

Shautrel Carpente!

Released By: Shantall Carpenter Title: Project Manager

Date:

7/21/2009



This Laboratory is NELAP (T104704213-09-TX) accredited. Effective: 07/01/2009; Expires: 06/30/2010 Scope: Non-Potable Water, Drinking Water, Air, Solid, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided

Date Received: 07/10/2009 09:39

#### LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID: 09070273

Date:

7/21/2009

Back-Wt

Back Weight

BRL cfu

**Below Reporting Limit** colony-forming units

Conc.

Concentration Dilution Factor

D.F. Front-Wt

Front Weight

LCS

Laboratory Check Standard

LCSD

Laboratory Check Standard Duplicate

MS

Matrix Spike

MSD MW

Matrix Spike Duplicate

Molecular Weight

Post-Wt ppm

Post Weight parts per million

Pre-Wt

Previous Weight

RegLimit

Qualifier Regulatory Limit

RPD RptLimit Relative Percent Difference

Reporting Limit

SDL surr Т

Sample Detection Limit Surrogate

Time

TNTC

Too numerous to count

Qualifier Definition

#### LABORATORY TEST RESULTS



Job ID: 09070273

Date 7/21/2009

Client Name:

CES Environmental

Project Name:

0709-11

0709-11

Client Sample ID:

Date Collected: 07/10/09 Time Collected: 08:00

Job Sample ID:

09070273.01

Attn: Miles Root

Sample Matrix Soil

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit Q	Date Time	Analy
SW-846 1010	Ignitability (Flash Point)							
	Ignitability	>150	°F	1			07/20/09 06:20	SG
SW-846 6010C	TCLP Metals							
	Arsenic	BRL	mg/L	1	0.04	5.0	07/15/09 11:07	TK
	Barium	2,910	mg/L	1	0.04	100.0	07/15/09 11:07	TK
	Cadmium	BRL	mg/L	1	0.04	1.0	07/15/09 11:07	TK
	Chromium	BRL	mg/L	1	0.04	5.0	07/15/09 11:07	TK
	Lead	BRL	mg/L	1	0.04	5.0	07/15/09 11:07	TK
	Selenium	BRL	mg/L	1	0.1	1.0	07/15/09 11:07	TK
	Silver	BRL	mg/L	1	0.04	5.0	07/15/09 11:07	TK
SW-846 7.3	Reactive Cyanide							
Line and the country of the second of the	Reactive Cyanide	BRL	mg/Kg	1	25		07/10/09 14:01	KS
SW-846 7.3	Reactive Sulfide							
T. 17. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	Reactive Sulfide	BRL	mg/Kg	1	25		07/10/09 15:15	KS
SW-846 7470A	TCLP Metals, Mercury							
,,, 210 / 13 UA	Mercury	BRL	mg/L	1	0.0005	0.2	07/14/09 15:50	SS
SW-846 8260B	TCLP VOC							
SW 010 0200D	1,1-Dichloroethylene	BRL	mg/L	1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1	0.13	0.6	07/14/09 14:42	HW
	1,2-Dichloroethane	BRL	mg/L	1	0.13	0.5	07/14/09 14:42	HW
	1,4-Dichlorobenzene	BRL	mg/L	1	0.15	7.5	07/14/09 14:42	HW
	Benzene	BRL	mg/L	1	0.13	0.5	07/14/09 14:42	HW
	Carbon tetrachloride	BRL	mg/L	1	0.13	0.5	07/14/09 14:42	HW
	Chlorobenzene	BRL	mg/L	1	0.15	70	07/14/09 14:42	HW
	Chloroform	BRL	mg/L	1	0.13	6	07/14/09 14:42	HW
	MEK	BRL	mg/L	1	0.13	200	07/14/09 14:42	HW
	Tetrachloroethylene	BRL	mg/L	1	0.16	0.7	07/14/09 14:42	HW
	Trichloroethylene	BRL	mg/L	1	0.13	0.5	07/14/09 14:42	HW
	Vinyl Chloride	BRL	mg/L	1	0.1	0.2	07/14/09 14:42	HW
	p-Bromofluorobenzene(surr)	90.2	%	1	70-130		07/14/09 14:42	HW
	Toluene-d8(surr)	101	%	1	70-130		07/14/09 14:42	HW
	1,2-Dichloroethane-d4(surr)	99.6	%	1	70-130	Article Article	07/14/09 14:42	HW
	Dibromofluoromethane(surr)	94.4	%	1	70-130		07/14/09 14:42	HW
SW-846 8270D	TCLP Semivolatiles							
	1,4-Dichlorobenzene	BRL	mg/L	1	0.05	7.5	07/14/09 12:56	ML
	2,4,5-Trichlorophenol	BRL	mg/L	1	0.05	400	07/14/09 12:56	ML
	2,4,6-Trichlorophenol	BRL	mg/L	1	0.05	2	07/14/09 12:56	ML
	2,4-Dinitrotoluene	BRL	mg/L	1	0.05	0.13	07/14/09 12:56	ML
	2-Methylphenol	BRL	mg/L	1	0.05	200	07/14/09 12:56	ML
	3- & 4-Methylphenols	BRL	mg/L	1	0.05	200	07/14/09 12:56	ML

#### LABORATORY TEST RESULTS

Job ID: 09070273

Date 7/21/2009

Attn: Miles Root

Client Name: CES Environmental 0709-11

Project Name:

Job Sample ID: 09070273.01

Client Sample ID: 0709-11 Date Collected: 07/10/09

Sample Matrix Soil

Time Collected: 08:00 Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit Q	Date Time	Analyst
SW-846 8270D	TCLP Semivolatiles							
	Hexachlorobenzene	BRL	mg/L	1	0.05	0.13	07/14/09 12:56	ML
	Hexachlorobutadiene	BRL	mg/L	1	0.05	0.1	07/14/09 12:56	ML
	Hexachloroethane	BRL	mg/L	1	0.05	3	07/14/09 12:56	ML
	Nitrobenzene	BRL	mg/L	1	0.05	2	07/14/09 12:56	ML
	Pentachlorophenol	BRL	mg/L	1	0.05	100	07/14/09 12:56	ML
	Pyridine	BRL	mg/L	1	0.05	4	07/14/09 12:56	ML
	2-Fluorophenol(surr)	34	%	1	20-115		07/14/09 12:56	ML
	p-Terphenyl-d14(surr)	59.6	%	1	30-140		07/14/09 12:56	ML
	2,4,6-Tribromophenol(surr)	53.9	%	1	10-120		07/14/09 12:56	ML
	2-Fluorobiphenyl(surr)	53	%	1	30-115		07/14/09 12:56	ML
	Nitrobenzene-d5(surr)	47.5	%	1	20-120		07/14/09 12:56	ML
	Phenol-d6(surr)	22.5	%	1	15-120		07/14/09 12:56	ML
SW-846 9045D	Corrosivity, pH							
	pH	8.61	s.u.				07/14/09 14:00	SG



Reactive Sulfide

**Job ID:** 09070273

Date:

7/21/2009

Analysis: Reactive Sulfide

Method:

SW-846 7.3

Reporting Units: mg/Kg

**QC Batch ID**: Qb09071311

Created Date: 07/10/09

0

Created By: Ksudha

Samples in This QC Batch: 09070273.01

**Sample Preparation:** PB09071310 Prep Method: SW-846 7.3

mg/Kg

07/10/09 14:00 Prep By:

Prep Date:

Ksudha

353.3.1			<ul> <li>1 (1) (22)</li> </ul>	10000												
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	Idilietei					OH										

BRL

ptLimit Qual Reactive Sulfide BRL mg/Kg 1 25

QC Type: Duplicate QC Sample ID: 09060644.31 QCSample Sample **RPD** Result Parameter Result Units RPD CtrlLimit Qual

20

QC Type: LCS and LCSD %Recovery LCS LCS LCS LCSD LCSD LCSD RPD Spk Added % Rec % Rec RPD CtrlLimit Parameter Result Spk Added Result CtrlLimit Qual Reactive Sulfide 1000 760 76 1000 760 76 20 40-120



**Job ID:** 09070273

Date:

7/21/2009

Analysis: Reactive Cyanide

Method:

SW-846 7.3

Reporting Units: mg/Kg

**QC Batch ID**: Qb09071313

Created Date: 07/10/09

Created By: Ksudha

Samples in This QC Batch: 09070273.01

**Sample Preparation:** PB09071313

Prep Method: SW-846 7.3

**Prep Date:** 07/10/09 14:00 **Prep By:** 

Ksudha

QC Type: Method Blank Parameter	CAS #	Result	Units D.F.	RptLimit	Qual
Reactive Cyanide		BRL	mg/Kg 1	25	

QC Type: Dupli	cate							
QC Sample ID:	09060644.3	1						
	QCSa	mple	Sample			RPD		
Parameter	Re	sult	Result	Units	RPD	CtrlLimit		Qual
Reactive Cyanide	В	RL.	BRL	mg/Kg		20		

QC Type: LCS and LCS	D									
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Reactive Cyanide	25	10.3	41.2	25	11.0	44	6.6	20	40-120	Q



**Job ID**: 09070273

Date:

7/21/2009

Analysis : Corrosivity, pH

Method:

SW-846 9045D

Reporting Units: s.u.

**QC Batch ID**: Qb09071420

**Created Date:** 07/14/09

Created By: Sgarcia

Samples in This QC Batch: 09070273.01

QC Type: Duplica	te						
QC Sample ID: 0	<b>9070272.01</b> OCSample	Sample			RPD		
Parameter	Result	Result	Units	RPD	CtrlLimit	 <u> </u>	Qual
рН	6.95	6.93	s.u.	0.3	5.		

QC Type: LCS and LCS	D							
	LCS	LCS	LCSD	LCSD		RPD		
Parameter	Assigned	Result	Assigned	Result	RPD	CtrlLimit	Tolerance	Qual
pH	4.00	4.01					3.95-4.05	



Job ID: 09070273

Date:

7/21/2009

Analysis : TCLP VOC

Method:

SW-846 8260B

**QC Batch ID**: Qb09071431

Created Date: 07/14/09

Reporting Units: mg/L

Samples in This QC Batch : 09070273.01

Created By: Whuimei

Sample Preparation :

PB09071419

Prep Method: SW-846 5030C

**Prep Date:** 07/14/09 10:20 **Prep By:** 

Whuimei

TCLP Prep:

PB09071407

Prep Method: SW-846 1311

**Prep Date:** 07/13/09 17:30 **Prep By:** 

Sgarcia

QC Type: Method Blank								
Parameter	CAS #	Result	Units	D.F.	RptLimit			Qual
1,1-Dichloroethylene	75-35 <del>-4</del>	BRL	mg/L	1	0.13		 <del></del>	
1,2-Dichloroethane	107-06-2	BRL	mg/L	1	0.13			
1,4-Dichlorobenzene	106-46-7	BRL	mg/L	1	0.15	l ·		ł
Benzene	71 <del>-4</del> 3-2	BRL	mg/L	1	0.13			
Carbon tetrachloride	56-23-5	BRL	mg/L	1	0.13			
Chlorobenzene	108-90-7	BRL	mg/L	1	0.15	ļ		)
Chloroform	67-66-3	BRL	mg/L	1	0.13		·	1
MEK	78 <b>-</b> 93-3	BRL	mg/L	1	0.13	}		
Tetrachloroethylene	127-18 <del>-4</del>	BRL	mg/L	1	0.16			
Trichloroethylene	79-01-6	BRL	mg/L	1	0.13			
Vinyl Chloride	75-01-4	BRL	mg/L	1	0.1			

QC Type: LCS and LCS	D									
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
1,1-Dichloroethylene	0.5	0.534	107	0.5	0.516	103	3.4	25	70-130	
Benzene	0.5	0.509	102	0.5	0.508	102	0.2	25	70-130	
Chlorobenzene	0.5	0.495	99	0.5	0.499	99.8	0.8	25	70-130	
MEK	0.5	0.425	85	0.5	0.47	94	10.1	35	70-180	
Tetrachloroethylene	0.5	0.499	99.8	0.5	0.513	103	2.8	25	70-130	
Trichloroethylene	0.5	0.475	95	0.5	0.483	96.6	1.7	25	70-130	

QC Type: MS and MSD QC Sample ID: 090702	268.01										
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
1,1-Dichloroethylene	BRL	0.5	0.502	100	]					70-130	
Benzene	BRL	0.5	0.498	99.6	1					70-130	ŀ
Chlorobenzene	BRL	0.5	0.5	100			Ì		1	70-130	ļ
MEK	BRL	0.5	0.438	87.6						70-130	
Trichloroethylene	BRL	0.5	0.46	92						70-130	



Job ID: 09070273

Date:

7/21/2009

Analysis : TCLP Metals

Method:

SW-846 6010C

0.04

0.04

0.1

0.04

Reporting Units: mg/L

**QC Batch ID**: Qb09071434

Created Date: 07/14/09

Created By: Tkhuc

Samples in This QC Batch:

09070273,01

7440-47-3

7439-92-1

7782-49-2

7440-22-4

Digestion: TCLP Prep:

Chromium

Selenium

Lead

Silver

PB09071422

PB09071407

Prep Method: SW-846 3010A

Prep Method: SW-846 1311

BRL

BRL

BRL

BRL

1

1

1

1

Prep Date: 07/14/09 11:00 Prep By: **Prep Date:** 07/13/09 17:30 **Prep By:** 

Tkhuc Sgarcia

					,	
QC Type: Method Blank						
Parameter	CAS#	Result	Units	D.F.	RptLimit	Qual
Arsenic	7440-38-2	BRL	mg/L	1	0.04	
Barium	7440-39-3	BRL	mg/L	1	0.04	
Cadmium	7440-43-9	BRL	mg/L	1	0.04	ŀ

mg/L

mg/L

mg/L

mg/L

QC Type:	LCS and LCS	D			* .						
Parameter		LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Arsenic		2	2.120	106	2	2.149	107	1.4	20	80-120	
Barium		2	1.902	95.1	2	1.915	95.8	0.7	20	80-120	
Cadmium		2	1.991	99.6	2	2.010	101	1	20	80-120	1
Chromium		2	1.950	97.5	2	1.954	97.7	0.2	20	80-120	
Lead		2	1.771	88.6	2	1.781	89.1	0.6	20	80-120	
Selenium		2	2.112	106	2	2.151	108	1.8	20	80-120	
Silver		2	2.046	102	2	2.068	103	1.1	20	80-120	

QC Type: N QC Sample 1	D 0273.01										
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Arsenic	BRL	2	2.171	109		1				45-138	
Barium	2.910	2	4.640	86.5						39-135	
Cadmium	BRL	2	2.051	103						56-125	
Chromium	BRL	2	1.909	95.5					1	52-125	
Lead	BRL	2	1.789	89.5						55-125	
Selenium	BRL	2	2.153	108						70-130	
Silver	BRL	1 2	2.108	105			1			26-148	



Job ID: 09070273

Date:

7/21/2009

Analysis: TCLP Semivolatiles

Method:

SW-846 8270D

Reporting Units: mg/L

**QC Batch ID**: Qb09071435

Created Date: 07/14/09

Created By: Mli

Samples in This QC Batch: 09070273.01

Extraction:

PB09071409

Prep Method: SW-846 3510C

**Prep Date:** 07/14/09 10:12 **Prep By:** 

Lwang

TCLP Prep:

PB09071407

Prep Method: SW-846 1311

**Prep Date:** 07/13/09 17:30 **Prep By:** 

Sgarcia

QC Type: Method Blank							
Parameter	CAS#	Result	Units	D.F.	RptLimit		Qual
1,4-Dichlorobenzene	106-46-7	BRL	mg/L	1	0.05		
2,4,5-Trichlorophenol	95-95-4	BRL	mg/L	1	0.05		
2,4,6-Trichlorophenol	88-06-2	BRL	mg/L	. 1	0.05		
2,4-Dinitrotoluene	121-14-2	BRL	mg/L	1	0.05		
2-Methylphenol	95-48-7	BRL	mg/L	1	0.05		
3- & 4-Methylphenols	108-39-4 & 106-44-5	BRL	mg/L	1	0.05		
Hexachlorobenzene	118-74-1	BRL	mg/L	1 .	0.05		İ
Hexachlorobutadiene	87-68 <b>-</b> 3	BRL	mg/L	1	0.05		1
Hexachloroethane	67-72-1	BRL	mg/L	1	0.05		
Nitrobenzene	98-95-3	BRL	mg/L	1	0.05		1
Pentachlorophenol	87 <b>-</b> 86-5	BRL	mg/L	1	1.25		1
Pyridine	110-861	BRL	mg/L	_1	0.05		

QC Type: LCS and LCS	D		· · · · · · · · ·		<del></del>	<del></del>				
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
1,4-Dichlorobenzene	0.25	0.167	66.8	0.25	0.171	68,4	2.4	35	24-134	
2,4,5-Trichlorophenol	0.25	0.215	86	0.25	0.204	81.6	5.2	35	6-115	
2,4,6-Trichlorophenol	0.25	0.18	72	0.25	0.186	74.4	3.3	35	40-138	i .
2,4-Dinitrotoluene	0.25	0.184	73.6	0.25	0.182	72.8	1.1	35	32-114	
2-Methylphenol	0.25	0.163	65.2	0.25	0.165	66	1.2	35	6-132	
3- & 4-Methylphenols	0.5	0.321	64.2	0.5	0.313	62.6	2.5	35	29-132	
Hexachlorobenzene	0.25	0.212	84.8	0.25	0.214	85.6	0.9	35	44-142	
Hexachlorobutadiene	0.25	0.18	72	0.25	0.174	69.6	3.4	35	20-124	1
Hexachloroethane	0.25	0.169	67.6	0.25	0.17	68	0.6	35	14-136	
Nitrobenzene	0.25	0.202	80.8	0.25	0.197	78.8	2.5	35	38-146	1
Pentachiorophenol	0.25	0.138	55.2	0.25	0.136	54.4	1.5	35	25-125	ŀ
Pyridine	0.25	0.099	39.6	0.25	0.098	39.2	1	35	6-112	

QC Type: MS a	nd MSD										
QC Sample ID:	09070317.01										
	Sample	MS	MS	MS	MSD	MSD	MSD		RPD	%Rec	
Parameter	Result	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qual
1,4-Dichlorobenze	ne BRL	0.25	0.125	50				elitika.		24-134	, 40 cm



Job ID: 09070273

Date:

7/21/2009

Analysis : TCLP Semivolatiles

Method:

SW-846 8270D

Reporting Units: mg/L

**QC Batch ID**: Qb09071435

Created Date: 07/14/09

Created By : Mi

Samples in This QC Batch: 09070273.01

QC Type: MS and MSD QC Sample ID: 090703	317.01										
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
2,4,5-Trichlorophenol	BRL	0.25	0.146	58.4						6-115	
2,4,6-Trichlorophenol	BRL	0.25	0.124	49.6	1		}			40-138	
2,4-Dinitrotoluene	BRL	0.25	0.123	49.2	1		}	ļ		32-114	
2-Methylphenol	BRL	0.25	0,113	45.2	) ]			ĺ		6-132	
3- & 4-Methylphenols	BRL	0.5	0.212	42.4			1		i i	29-132	
Hexachlorobenzene	BRL	0.25	0.151	60.4	[		-		}	44-142	
Hexachlorobutadiene	BRL	0.25	0.13	52	1 (		ļ	1	}	20-124	
Hexachloroethane	BRL	0.25	0.129	51.6	·}		1	Ì		14-136	
Nitrobenzene	BRL	0.25	0.146	58.4				}	]	38-146	
Pentachlorophenol	BRL	0.25	0.131	52.4	·] }			[		25-125	
Pyridine	BRL	0.25	0.063	25.2	Ll		<u> </u>	[		6-112	



**Job ID**: 09070273

Date:

7/21/2009

Analysis : TCLP Metals, Mercury

Method:

SW-846 7470A

Reporting Units: mg/L

**QC Batch ID**: Qb09071448

Created Date: 07/14/09

Created By: Ssrinivasan

Samples in This QC Batch: 09070273.01

Digestion:

PB09071429

Prep Method: SW-846 7470A

Prep Date: 07/14/09 08:00 Prep By:

Ssrinivasan

TCLP Prep:

PB09071407

**Prep Method:** SW-846 1311

**Prep Date:** 07/13/09 17:30 **Prep By:** 

Sgarcia

Q	C	Ty	pe:	1	Metho	d Bla	ink

Parameter	CAS#	Result	Units	D.F.	RptLimit	Qual
Mercury	7439-97-6	BRL	mg/L	1	0.0005	

	00 T	-		JI COD
1	QC Type:		LCS an	d LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Mercury	0.005	0.0050	101	0.005	0.0050	100	0.4	35	71-143	

QC Type: MS and MSD QC Sample ID: 09070237.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Mercury	BRL	0.005	0.0051	101						61-175	



**Job ID**: 09070273

Date:

7/21/2009

Analysis: Ignitability (Flash Point)

Method: SW-846 1010 Reporting Units: °F

**QC Batch ID**: Qb09072022

Created Date: 07/20/09

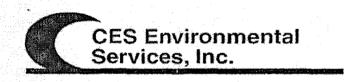
Created By: Sgarcia

Samples in This QC Batch: 09070273.01

QC Type: Duplicate						
QC Sample ID: 09070	QCSample	Sample			RPD	
Parameter	Result	Result	Units	RPD	CtrlLimit	Qual
Ignitability	>150	>150	٥F	· ·	20	

QC Type:	LCS and LCSI	)						<u> </u>			
Parameter		LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Ignitability		83	85	102	83	86	104	1.2	20	75-125	

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<b>TESTING</b>	LABORA	ATORY	IDENTIFI	CATION 8	INFORMA	TION:

A+B LABS 10100 EAST FWY SUITE 100 713-453-6060

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## **CHAIN of CUSTODY RECORD**

CES Environmental Services, Inc.

4904 Griggs Road

Houston, TX 77021

Main Number: (713) 676-1460 Fax Number: (713) 676-1676 Test Results Reporting CES Environmental Services, Inc.

Main Number: (713) 676-1460

Fax Number: (713) 676-1676

Project Name Sample Name			Comments/Special Instructions:					
	0709-		Turnaround Time Required:					
Contact: MILES ROO	T 832-607	- 6678	DATE and/or Number of Days: STANDARD					
SAMPLER: PRINT: MILE		·	OTHER INFORMATION: SAMPLE TAKEN 7/10/09 - 8AM.					
SIGN: Type and Number of Containe	CIRCLE)							
Glass	1 2 3		SAMPLE NAME/ID ('s):OT	109-11				
Grab	4 5 6	Other:	CES Sample LOG BK Number	('s): 070°	<u>;                                    </u>			
Requested Analysis: TCLP METALS, TCLP VOLATILES 4 SEMI VOLATILES, RCI								
	·							
1) Relinquished By:	Date: 7/10/09	7 Time: 9 20	2. Received By:	Date:	Time: 9:20 pm			
Relinquished By:	Date: 7//0/0°7	Time: 9:39	4. Received By:	7/10(09	Time: 4:39 AM.			
/5) Relinquished By:	Date:	Time:	6. (Received By:)	Date:	Time:			

## **Sample Condition Checklist**



Date: 07/21/09

A&B	JobID : 09	9070273	3	I F	Date Received	07/	10/2009		Time	Received :	9:39AM	<del></del>		
	nt Name : CES Environmental													
Telli	Temperature: 19.3°C Sample pH: N/A													
											<del></del>		<del></del>	
	Check Points								Yes	No				
1.	Cooler seal pr	esent an	d signe	d.								N/A		
2.	Sample(s) in a	a cooler.											Х	
3.	If yes, ice in c	cooler.											Х	
4.	Sample(s) rec	eived wi	th chair	1-of-cust	ody.							Х		
5.	C-O-C signed	and date	d.									х		
6.	Sample(s) rec	eived wi	th signe	ed samp	le custody sea	al.						N/A		
7.	Sample conta	iners arri	ived int	act. (If n	o comment).							Х		
8,	Matrix V	Nater	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Oth	Other	
													<u> </u>	
9.	Sample(s) were received in appropriate container(s).								X					
10.	0. Sample(s) were received with proper preservative								N/A					
11.	1. All samples were logged or labeled.							X						
12.	2. Sample ID labels match C-O-C ID's							X						
13.	3. Bottle count on C-O-C matches bottles found.							X						
14.	4. Sample volume is sufficient for analyses requested.							×						
15.	5. Samples were received within the hold time.							Х						
16.	VOA vials completely filled.							N/A						
17.	Z. Sample accepted.							Х						
Com	Comments : Include actions taken to resolve discrepancies/problem:													
Sample was collected and brought straight to lab.														
					<del></del>						<del></del> -			
Received by: Mgonzalez Check in by/date: Mgonzalez / 07/10/2009														
	Received by . Figurealist 197/10/2009													
Phone :. 713-453-6060 www.ablabs.cc						.com	-							

Page 15 of 15



Form SW05 (2003)

NH sludge box

## SPECIAL WASTE UPDATE / RENEWAL CERTIFICATION

1. Generator Name: S. Echaerder	1. Billing Name: CES					
2. Address:	2. Address:					
4. Contact Name: 5. Phone Number: 6. Fax Number:	5. Fax Number:					
***PLEASE	UPDATE ANY INCORRECT INFORMATION***					
REPUBLIC APPROVAL NUMBER: 04-0	EXPIRATION DATE: 7/25/08					
WASTE DESCRIPTION/NAME:	- LAZ Sludge CANK LEELS					
1. Attached Document(s): None MSDS CC 2. If analytical data is attached, is the data derived fror laws? YES NO  1. Packaging: Bulk Solids Bulk Liquids Dr 2. Estimated Volume: Tons Cu 3. Shipping Frequency: per One 4. Designated Landfill(s): Calves o 5. Disposal Method: Landfill Solidification	SUPPLEMENTAL INFORMATION  ertified Analytical Report					
In the event the physical or chemical nature of the war new analytical must also be submitted.	ste stream is altered/changed, the landfill must be immediately notified in writing, and					
	Certification Statement:					
changed since the previous approval.	ristics, as well as the process(es) generating the above named waste streams, have not					
COMPANY NAME: CESENVIVO PUO	Ntal PRINTED NAME: Dava Caree					
DATE: <u>0-2-08</u>	SIGNATURE: WOUL CAAL					

## Mercury Environmental Services, Inc.

6913 HWY 225, Deer Park, TX 77536 Phone: (281)-476-4534 Fax: (281)-476-4406

> Schneider National 1415A Penn City Rd

Houston, TX 77015

Phone: (281) 864-6416

(281) 864-6424

Attn:

Bill Galena

- CERTIFICATE OF RESULTS -

MES Lab#:

8020639

Client Sample ID:

Waste Heels

Extended ID:

WG1-66181

Sample Collect Date: 2/28/2008 @ 7:30:00 AM

Sample Type:

Comp

Sample Receipt Date: 2/28/2008 @ 9:35:00 AM

Test Group / Method

rest Group / Menion						
TCLP Metals (11) Method: SW-846 6010B	MDL	RL	Result	Units	Analyst: HD Date / Time	
Antimony	0.032	1	< 0.032	mg/L	3/6/2008 /	10:17 PM
Arsenic	0.014	5	< 0.014	mg/L	3/6/2008 /	10:17 PM
Barium	0.0005	100	0.108	mg/L	3/6/2008 /	10:17 PM
Beryllium	0.0005	0.08	0.0016	mg/L	3/6/2008 /	10:17 PM
Cadmium	0.002	1	< 0.002	mg/L	3/6/2008 /	10:17 PM
Chromium	0.002	5	0.006	mg/L	3/6/2008 /	10:17 PM
Lead	0.005	5	< 0.005	mg/L	3/6/2008 /	10:17 PM
Nickel	0.003	70	0.006	mg/L	3/6/2008 /	10:17 PM
Selenium	0.024	1	< 0.024	mg/L	3/6/2008 /	10:17 PM
Silver	0.002	5	0.006	mg/L	3/6/2008 /	10:17 PM
TCLP Mercury Method: SW-846 7470A	_ MDL	RL	Result	Units	Analyst; TF Date / Time	
Mercury	0.0002	0.2	< 0.0002	mg/L	3/4/2008 /	10:23 PM
TCLP Volatiles Method: SW-846 8260B	MDL	RL	Result	Units	Analyst: TFI	
Vinyl chloride	0.10	0.2	< 0.10	mg/L	3/1/2008 /	6:30 AM
1,1-Dichloroethene	0.05	0.7	< 0.05	mg/L	3/1/2008 /	6:30 AM
2-Butanone	0.50	200	< 0.50	mg/L	3/1/2008 /	6:30 AM
Chloroform	0.05	6	< 0.05	mg/L	3/1/2008 /	6:30 AM
Carbon tetrachloride	0.05	0.5	< 0.05	mg/L	3/1/2008 /	6:30 AM
1,2-Dichloroethane	0.05	0.5	< 0.05	mg/L	3/1/2008 /	6:30 AM
Benzene	0.05	0.5	< 0.05	mg/L	3/1/2008 /	6:30 AM
Trichloroethene	0.05	0.5	< 0.05	mg/L	3/1/2008 /	6:30 AM
Tetrachloroethene	0.05	0.7	< 0.05	mg/L	3/1/2008 /	6:30 AM
Chlorobenzene	0.05	100	< 0.05	mg/L	3/1/2008 /	6:30 AM
1,4-Dichlorobenzene				-	3/1/2008 /	6:30 AM

Report Date: 07-Mar-08

Page 1 of 3

#### - CERTIFICATE OF RESULTS -

MES Lab#:

8020639

Client Sample ID: Extended ID:

Waste Heels WG1-66181

Sample Collect Date: 2/28/2008 @ 7:30:00 AM

Sample Type:

Comp

Sample Receipt Date: 2/28/2008 @ 9:35:00 AM

Hexachlorobutadiene	0.05	0.5	< 0.05	mg/L	3/1/2008 /	6:30 AM
TCLP Sem-Volatiles Method: SW-846 8270C	MDL	RL	Result	Units	Analyst: TF Date / Time	
Pyridine	0.10	5	< 0.10	mg/L	3/5/2008 /	2:24 AM
1,4-Dichlorobenzene	0,10	7.5	< 0.10	mg/L	3/5/2008 /	2:24 AM
o-Cresol	0.10	200	< 0.10	mg/L	3/5/2008 /	2:24 AM
m+p-Cresol	0.10	200	< 0.10	mg/L	3/5/2008 /	2:24 AM
Hexachioroethane	0.10	3	< 0.10	mg/L	3/5/2008 /	2:24 AM
Nitrobenzene	0.10	2 .	< 0.10	mg/L	3/5/2008 /	2:24 AM
Hexachlorobutadiene	0.10	0.5	< 0.10	mg/L	3/5/2008 /	2:24 AM
2,4,6-Trichlorophenol	0.10	2	< 0.10	mg/L	3/5/2008 /	2:24 AM
2,4,5-Trichlorophenol	0.10	400	< 0.10	mg/L	3/5/2008 /	2:24 AM
2,4-Dinitrotoluene	0.10	0.13	< 0.10	mg/L	3/5/2008 /	2:24 AM
Hexachlorobenzene	0.10	0.13	< 0.10	mg/L	3/5/2008 /	2:24 AM
Pentachlorophenol	1.00	100	< 1.00	mg/L	3/5/2008 /	2:24 AM
TCLP Pesticides Method: SW-846 8081A	MDL	RL	Result	Units	Analyst: TF	
Chlordane	0.0010	0.03	< 0.0010	mg/L	3/4/2008 /	11:49 PN
Endrin	0.0020	0.02	< 0.0020	mg/L	3/4/2008 /	11:49 PM
Heptachlor	0.0010	0.008	< 0.0010	mg/L	3/4/2008 /	11:49 PN
Lindane	0.0010	0.4	< 0.0010	mg/L	3/4/2008 /	11:49 PM
Heptachlor epoxide	0.0010	0.04	< 0.0010	mg/L	3/4/2008 /	11:49 PN
Toxaphene	0.1000	0.5	< 0.1000	mg/L	3/4/2008 /	11:49 PN
Methoxychlor	0.0100	10	< 0.0100	mg/L	3/4/2008 /	11:49 PM
TCLP Herbicides Method: SW-846 8151A	MDL	RL	Result	Units	Analyst: TFI Date / Time	
2,4-D	0.7	10	< 0.7	mg/L	3/5/2008 /	7:11 PM
2,4,5-TP (Silvex)	0.3	1	< 0.3	mg/L	3/5/2008 /	7:11 PM
Reactivity, Recoverable Hydrog Method: 7,3,3,2	en Cyanide MDL		Result	Units	Analyst: CL Date / Time	
Hydrogen Cyanide	0.25		< 0.25	mg/kg	2/29/2008 /	2:40 PM
Reactivity, Recoverable Hydrog Method: 7.3.4.2	en Sulfide MDL		Result	Units	Analyst: CL Date / Time	
Hydrogen Sulfide	0.25		< 0.25	mg/kg	2/29/2008 /	
Corrosivity: pH Method: SW-846 9045	MDL		Result	Units	Analyst: JE Date / Time	
рН			7.63		3/3/2008 /	1:00 PM

Report Date: 07-Mar-08

Page 2 of 3

P. 03

#### - CERTIFICATE OF RESULTS -

MES Lab#:

8020639

Client Sample ID:

Waste Heels

Extended ID:

WG1-66181

Sample Collect Date: 2/28/2008 @ 7:30:00 AM

Sample Receipt Date: 2/28/2008 @ 9:35:00 AM

Sample Type:

Comp

**Flashpoint** 

Ignitability Method: SW-846 1010

MDL

Result

>150

Units

deg F

Analyst: LC Date / Time

3/3/2008 /

2:05 PM

Flags: H: Exceeds "High Limit" L: Below "Low Limit"

RL=regulatory limit

Friday, March 07, 2008

Holland D. Gilmore, Laboratory Director

**Date** 

8020639

#### MERCURY ENVIRONMENTAL SERVICES QA/QC REPORT

SURROGATE SPIKE REC	OVERY FOR	R PESTI	CIDES			% REC	:	
Decachlorobiphenyl Fetrachloro-metaxylene						85.0 105.1		
SURROGATE SPIKE REC	OVERY FOR	NOLA	<u> </u>			% REC	-	
Dibromofluoromethane Toluene-d8 4-Bromofluorobenzene	*.	•				100.0 91.8 102.9	ě	
VOLATILES	MS %REC	MSD %REC	%RSD	CCV %REC	MB mg/L	LCS %REC	LCSD %REC	%RSD
Vinyl Chloride	108.2	94.6	3.4	96.1	< 0.010	107.4	106.8	0.1
1,1-Dichloroethene	99.0	91	2.1	88.4	< 0.005	100.4	98	0.6
2-Butanone	103.0	95.6	1.9	90.6	< 0.050	101.8	103.6	0.4
Chloroform	93.8	86	2.2	88.2	< 0.005	96.2	96.2	0.0
Carbon tetrachloride	107.4	94.8	3.1	96.2	< 0.005	111.4	109.2	0.5
1,2-Dichloroethane	91.4	85.8	1.6	88.8	< 0.005	94.6	93	0.4
Benzene Friehtere etkere	99.4	94	1.4	90.8	< 0.005	97.8	95.6 99.6	0.6
Trichloroethene Tetrachloroethene	96.8 100.0	88.6 91.4	2.2 2.2	90.2 87.7	< 0.005 < 0.005	98.8 139.0	98.8	0.2 8.5
Chlorobenzene	94.2	86.2	2.2	92	< 0.005	100.4	96.6	1.0
1.4-Dichlorobenzene	89.0	78.4	3.2	88.6	< 0.005	96.6	93.6	0.8
lexachlorobutadiene	69.0	56.4	5.0	86	< 0.005	99.4	97	0.6
SURROGATE SPIKE RECO	OVERY FOR	SEMIV	OLATIL	ES		% REC		
2-Fluorophenol						36.8		
2-riuorophenoi 2henoi-d6						30.0 43.8		
Nitrobenzene-d5						42.8		
2-Fluorobiphenyl						47.2		
2,4,6-Tribromophenol						61.4		
o-Terphenyl-d14						39.4		

- Mercury Environmental Services, Inc. -

MS

MSD

LCS LCSD

8020639 Page 2

#### **QA/QC REPORT CONTINUED**

CCV

SEMI-VOLAT	ILES	%REC	%REC	<u> </u>	%REC	mg/L		%REC	%REC	
Pyridine 1,4-Dichlorob	enzene	40.5 38.2	49.8 45.8		84.1 113.3	< 0.05 < 0.05		34.4 56.2	49.6 46.6	
o-Cresol		34.3	40.5	•	110.0	< 0.05		57.8	53.8	
m+p Cresol		35.3	37.6		117.4	< 0.05		54.2	45	
Hexachloroet	nane	52.3	39.1		115.7	< 0.05		49.6	49.1	
Nitrobenzene	2 hutodiono	33.1 34.9	53.8 36.3		106.2	< 0.05		42.5 51	51.4 65.2	
Hexachioro-1, 2,4,6-Trichloro		34.9 39.2	40.4		101.4 101.9	< 0.05 < 0.05		41.8	65.6	
2,4,5-Trichlor		3 <del>5</del> .2	36.9		96.3	< 0.05		37.9	59.6	
2.4-Dinitrotolu	•	29.6	29.6		95.3	< 0.05		28.7	57.2	
Hexachlorobe		47.6	46.6		112.6	< 0.05		54.4	46.4	
Pentachloropl		29.1	24		65.4	< 0.5		47	41.1	
	MB	LCS	LCSD				MS	CCB		CCV
ANALYTE	mg/L_	%REC	%REC		RPD		%REC	mg/L		%REC
Arsenic	< 0.005	93.5	94.0		0.53		101.0	< 0.005		97.6
Barium	< 0.002	96.0	97.4		1.45		100.0	< 0.002		94.2
Cadmium	< 0.004	92.0	92.0		0.00		96.8	< 0.004		96.7
Chromium	< 0.007	99.8	100.0		0.20		98.0	< 0.007		98.0
Lead	< 0.010	92.0	92.0		0.00		97.2	< 0.010		94.2
Mercury	< 0.0002	97.2	96.4		0.83		96.6	< 0.000		98.6
Selenium	< 0.005	93.1	92.0		1.19		92.4	< 0.005		95.3
Silver	< 0.006	94.8	94.8		0.00		95.2	< 0.006		93.9
ANALYTE		STD								
Flashpoint		82°F								
	BUFFER									
ANALYTE	7.0	ORIG	DUP	RPD						
pН	7.0	6.55	6.57	0.30						
		ORIG	DUP							
ANALYTE		mg/kg	mg/kg	RPD						
Reactivity as H	lydrogen Sulfide	< 0.25	< 0.25	0.00						

Mercury Environmental Services, Inc.

8020639 Page3

#### QA/QC REPORT CONTINUED

ANALYTE	ORIG DUP mg/kg mg/kg RP	STD D %REC	
Reactivity as Hydrogen Cyanide	< 0.25 < 0.25 0.0	0 104	

#### Key to QA Abbreviations

MS=Matrix Spike RPD=Relative Percent Deviation LCS=Laboratory Control Standard CCB=Continuing Calibration Blank MDL=Minimum Detection Limit

MSD=Matrix Spike Duplicate
MB=Method Blank
CCV=Continuing Calibration Verification
%Rec=Percent Recovery
RL=Regulatory Limit

Signature: Holland D. Gilmore / Laboratory Director

March 7, 2008

- Mercury Environmental Services, Inc. -

P. 07

COMPANY NAME: (BILL TO:) SCANCIA	ler Natru	1c}				ME							TODY	1-800-771-4MES (281) 476-4534
	COMPANY ADDRESS: 1415 BEND GRY Rd  CITY HAUSTON STATE TR ZIP 2015						ry E. w. 225	nviro • Dee	nme er Park	ntal	Ser 7536	vice.	S	Fax (281)-476-4406
CITY HOUSTON R 11	GalaNL ST.	ATE	ZIP _	1/0/3				TERS FO					7 /	REMARKS
CONTACT PERSON'S NAME: DITT  CONTACT PERSON'S PHONE: 25/ 8		FAX #: _2	28186	4 64 24	4	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	$\mathcal{I}$			/			AINERS	FURNAROUND TIME
YOUR PROJECT NO.: YOUR PO		YOUR PR	OJECT NAME			沙						NUMBER OF COLC	PRESERVATIONS	DETECTION LIMITS SPECIAL LIMITS REQUIRED
					<b>J</b> (\$)	/R	/ /	/ /	/ /	/ /	/	/mme	RESENT.	Yes No Please circle one, if Yes,
YOUR SAMPLE DESCRIPTION	GRAB/COMP.	DATE	TIME	MATRIX	1/2	-/						~	a a	or include separate
Waste Heels	cemp	2/5/00	0730	studge	1	V								street detailing requirements.
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METHOD OF PAYMENT	SHIPPEO BY: (Signature)		CO (Sig	URIER (endang				19	NYED F	U.		7		DATE VIME
Sample Remainder Disposal  B  C Return Sample Remainder To Client Via					Request	Lab To D	ispose C	Of All Sai	mple Re	mainde	978	,,	Date)	

4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

## Waste Pre-Acceptance/Approval Letter

Date 11/10/2008

Dear Zac or Dave

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3053

**Expiration Date** 11/7/2010

Generator: Valucraft

Address: 175 County Road 2345

Grapeland, TX 75844

Waste Information

Name of Waste: Floor dry contaminated with oil

**TCEQ Waste Code #:** 00054891

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Daily housekeeping in facility - cleanup small drip and spills from machinery

Color: dark

Odor: none

pH: neutral

Custonier: Ckfi Services: Valucraft

**Physical State:** 

Incompatibilities: none

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

## CES Environmental Services, inc.

U.S. EPA ID Number: TXD0089S0461

4904 Griggs Road, Houston, TX 77021 

ISWR Number: 30900

http://www.cesenvironmental.com TCEQ Industrial Solid Waste Permit Number: 30948 Att: Morgan
Jenny
P#3053

SECTION 1: General Company: Address: City: Contact: Phone Number: 24/hr Phone Numb US EPA ID No: State ID No:	Cour Topelou FFHA PG3	म्द्रा <u>त</u>	1089 1089	E: The: The: Fax Nu		Zip:	5 <b>8</b> 4 4		•
SECTION 2: Billing I Company: Address: City: Contact: Phone Number:	nformation- IASI S 20 Hor INCOM DICHA 261-	SYPY	State	IC. Roj	mber:	zip: 7	1316 16nt 156-1	Jala	· · ·
SECTION 3: General	Description	of the Waste							
Name of Waste: Detailed Description		ienerating v		Hyd	90	Carlo House P Espill	DIDS Licypi	<u> </u>	
Physical State:	Uquid Solid		☐ Slud	ge r Cake		Powder Combination			
Calor:	Dule			Odor:		Work			
Specific Gravity (was	ter=1):					Oensity:	lbs/g	gal	
Does this material co	ontain any to	tal phenolic	compound	☐ f2	Yes	☐ No			
Does this material co	ontain any pa	ıra substitut	ed phenolic	compounds?		☐ Yes	2 No		
Is the Waste subject		-		-		-		Yes	No
Answer "Yes" If your		ns <b>ben</b> zene i	AND If the S	IIC code from y	our fac	ility is one of the	following:		
	2813	2816	2819	2821	2822	2823	2824	2833	2834
	2836	2841	2842	2843	2844	2851	2861	2865	2869
	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511 -						
Layers:	Single-phase		Multi-pha:	se .					
Container Type:	<b>☑</b> Orum	☐ Tote	☐ Truc	k 🗌 Other (	explain	n)			
Frequency:  Wee	ekly [] Mor		early 🔲	One-Time					

		ous Waste" per 40CFR 26 ill out the UHC Form	1.37	☐ Yes	E No		
If "Yes", Is it: Characteristic f Characteristic f	or Toxic i		10 🗆 0013	5 □ D006	0003 (Reactive)	e00 <b>0</b> 🔲 8000	
		d waste or mixed with or st ALL applicable codes:	ne?	☐ Yes	₹ No		-
40 CFR 261.33(	e) or (f)?	duct or spill cleanup that		a "U" or "P" w	aste code under		<u>.</u>
Texas State Wa Proper US DOT Class:			~ Huz_ _PG:	05489 - July 1	von Reje	Led M	elvil
Flash Po	int	рН ,	React	ive Sulfides	Reactive Cyani	des Sol	ids
M		neutra		me/l		100	%
7 1500		TOC		Zinc	Copper	Nic	kel
713-0	mg/l	7 1500 mg/		O mall	<u>0</u>   m		mg/l
SECTION 4: Phy	/sical and	Chemical Data		V man			
SECTION 4: Phy	rsical and	Chemical Data	rials	U mezi	CONCENTRATO	IN .	UNITS
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L	N (SINK CIGAL)	m organic, non-pe	ENVIROMEN	TAL		7137488664	P.004
(1)	If the waste contains	oil and grease at o	r in excess of 100	mg/L, the waste shou	ld be classif	fied in the oils subcategory	
(2)	If the waste contains excess of the values	oil and grease less listed below, the w	: than 100 mg/L, e aste should be cla	and has any of the pollo assified in the metals s	ulants listed ubcategory	below in concentrations in	
	Cadmium:Chromium:	_					
	Copper: Nickel:						
(3)				and does not have con- should be classified in		of cadmium, chromium, cop s subcategory.	per,
	Metals Subcatego						
	Oils Subcatego						
	Organics Subcate	gory					
SE	CTION 10: Additional	Instruction					
	centrations. This will b		nce. The generate	or will be responsible fo	or the cost o	f the analysis,	
lel	ve and attached dea berate or willful omi	cription is compl ssions of compos	ete and accurate sition properties	to the best of my kno	owledge an wn or susp	tical data. I hereby cerity to d ability to determine that sected hazards have been by this document.	
Αu	thorized Signature :		<i></i>		Date:	11-7-08	
>rjı	nted Name / Title :	Z-McKaughn /					
CE	S USE ONLA (DO NO	T WRITE IN THIS	SPACE)	<del>-</del>	Proce	ss Facility Information :	
Co	mpliance Officer :	<u>i</u>				•	
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Da	te:	_ Statue :	Approved	Rejected			

#### SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge?

If 'Yes', complete this section.

$\Box$	YES	N
س.	1	 •

#### PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subgrteanny: Subpart A Spent electroplating baths and/or sludges Air pollution control blow down water and sludges Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyenide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment  Oils Subcotegany: Subpart B Used oils Used oils Used oils Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Blige water Rinse/wast waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes  Organics Subcategory: Subpart C Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Still bottoms Byproduct waste glycol Wastewater from paint washes	Spent electroplating baths and/or sludges   Metal finishing rinse water and sludges   Chromate wastes   Air pollution control blow down water and sludges   Spent anodizing solutions   Incineration wastewaters   Waste liquid mercury   Cyenide-containing wastes greater than 136 mg/l   Waste acids and bases with or without metals   Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations   Vibratory deburring wastewater   Alkaline and acid solutions used to clean metal parts or equipment   Oils Subcateany: Subpart B   Used oils   Oil-water emulsions or mixtures   Uabricants   Coolants   Coolants   Coolants   Coolants   Oil spill clean-up   Bilge water   Alkaline water from petroleum sources   Interceptor wastes   Off-specification fuels   Underground storage remediation waste   Tank clean-out from petroleum or ally sources   Mon-contact used glycols   Aqueous and oil mixtures from parts cleaning operations   Wastewater from oil bearing paint washes   Off-specification organic product   Still bottoms   Supporduct waste glycol   Wastewater from adhesives and/or epoxies formulation   Wastewater from adhesives and/or epoxies formulation   Wastewater from adhesives and/or epoxies formulation   Wastewater from adhesives and/or epoxies formulation   Wastewater from adhesives and/or epoxies formulation   Wastewater from adhesives and/or epoxies formulation   Wastewater from adhesives and/or epoxies formulation   Wastewater from adhesives and/or epoxies formulation   Wastewater from organic chemical product operations		
Metal finishing rinse water and sludges   Chromate wastes   Air pollution control blow down water and sludges   Spent anodizing solutions   Incineration wastewaters   Waste liquid mercury   Cyonide-containing wastes greater than 136 mg/l   Waste acids and bases with or without metals   Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations   Vibratory deburring wastewater   Alkaline and acid solutions used to clean metal parts or equipment   Oils Sybcategory: Subpart B   Used oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils   User oils	Metal finishing rinse water and sludges   Chromate wastes   Air pollution control blow down water and sludges   Spent anodizing solutions   Incineration wastewaters   Waste liquid mercury   Cyenide-containing wastes greater than 136 mg/l   Waste acids and bases with or without metals   Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations   Vibratory deburring wastewater   Alkaline and acid solutions used to clean metal parts or equipment   Oils Subcateaony: Subpart 8   Used oils   Oil-water emulsions or mixtures   Lubricants   Coolants   Coolants   Coolants   Coolants   Coolants   Coolants   Oils part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the pa	Metals Subc	
Chromate wastes Air pollution control blow down water and sludges Spent amoliting solutions Incineration wastewaters Waste liquid mercury Cyenide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment  Oils Subcategaan: Subpart B Used oils Cli-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes  Organics Subcategory: Subpart C Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes	Chromate wastes   Air pollution control blow down water and sludges   Spent anodizing solutions   Incineration wastewaters   Waste liquid mercury   Cyenide-containing wastes greater than 136 mg/l   Waste acids and bases with or without metals   Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations   Vibratory deburring wastewater   Alkaline and acid solutions used to clean metal parts or equipment   Oils Subcateany: Subpart 8   Used oils   Oil-water emulsions or mixtures   Lubricants   Coolants   Coolants   Contaminated groundwater clean-up from petroleum sources   Used petroleum products   Oil spill clean-up   Alige water   Rinse/wast waters from petroleum sources   interceptor wastes   Off-specification fuels   Underground storage remediation waste   Tank clean-out from petroleum or oily sources   Non-contact used glycols   Aqueous and oil mixtures from parts cleaning operations   Wastewater from oil bearing paint washes   Off-specification organic product   Still bottoms   Byproduct waste glycol   Wastewater from adhesives and/or epoxies formulation   Wastewater from paint washes	<b>=</b>	, , , , , , , , , , , , , , , , , , , ,
Air pollution control blow down water and sludges   Spent anodizing solutions   Incineration wastewaters   Waste liquid mercury   Cyenide-containing wastes greater than 136 mg/l   Waste acids and bases with or without metals   Cleaning, rinsing, and bases with or without metals   Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations   Vibratory deburring wastewater   Alkaline and acid solutions used to clean metal parts or equipment    Oils Subcategany: Subpart B   Used oils   Used oils   Used oils   Used oils   Used oils   Used oils   Used oils   Used oils   Used oils   Used petroleum products   Contaminated groundwater clean-up from petroleum sources   Used petroleum products   Oil spill clean-up   Bilge water   Rinse/wash waters from petroleum sources   Interceptor wastes   Off-specification fuels   Underground storage remediation waste   Tank clean-out from petroleum or oily sources   Non-contact used glycols   Aqueous and oil mixtures from parts cleaning operations   Wastewater from oil bearing paint washes   Off-specification organic product   Still bottoms   Solvent-bearing wastes   Off-specification organic product   Still bottoms   Byproduct waste glycol   Wastewater from paint washes	Air pollution control blow down water and sludges   Spent anodizing solutions   Incineration wastewaters   Waste liquid mercury   Cyenide-containing wastes greater than 136 mg/l   Waste acids and bases with or without metals   Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations   Vibratory deburring wastewater   Alkaline and acid solutions used to clean metal parts or equipment   Vised oils   Used oils   Used oils   Oil-water emulsions or mixtures   Uubricants   Coolants   Coolants   Contaminated groundwater clean-up from petroleum sources   Used petroleum products   Oil spill clean-up   Bilge water   Rinse/wash waters from petroleum sources   Interceptor wastes   Off-specification fuels   Underground storage remediation waste   Tank clean-out from petroleum or oily sources   Non-contact used glycols   Aqueous and oil mixtures from parts cleaning operations   Wastewater from oil bearing paint washes   Off-specification organic product   Still bottoms   Byproduct waste glycol   Wastewater from paint washes   Wastewater from adhesives and/or epoxies formulation   Wastewater from paint washes   Wastewater from analysis and/or epoxies formulation   Wastewater from adhesives and/or epoxies formulation   Wastewater from againc chemical product operations	<u> </u>	
Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyenide-containing westes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment  Oils Subcategary: Subpart B Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wast waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or ally sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes  Organics Subcategary: Subpart C Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes	Spent anodizing solutions   Incineration wastewaters   Waste liquid mercury	<u> </u>	
Incineration wastewaters   Waste liquid mercury   Cyanide-containing wastes greater than 136 mg/l   Waste acids and bases with or without metals   Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations   Vibratory deburring wastewater   Alkaline and acid solutions used to clean metal parts or equipment	Incineration wastewaters   Waste liquid mercury   Cyenide-containing westes greater than 136 mg/l   Waste acids and bases with or without metals   Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations   Vibratory deburing wastewater   Alkaline and acid solutions used to clean metal parts or equipment   Alkaline and acid solutions used to clean metal parts or equipment   Used oils   Used oils   Used oils   Used oils   Used oils   Used oils   Used oils   Used oils   Used oils   Used petroleum sources   Used petroleum products   Used petroleum products   Used petroleum products   Used petroleum products   Used petroleum products   Used petroleum products   Used petroleum products   Used petroleum products   Used petroleum products   Used petroleum products   Used petroleum products   Used petroleum petroleum sources   Interceptor wastes   Off-specification fuels   Underground storage remediation waste   Tank clean-out from petroleum or oily sources   Non-contact used glycols   Aqueous and oil mixtures from parts cleaning operations   Wastewater from oil bearing paint washes   Contaminated groundwater clean-up from non-petroleum sources   Solvent-bearing wastes   Off-specification organic product   Still bottoms   Byproduct waste glycol   Wastewater from adhesives and/or epoxies formulation   Wastewater from odhesives and/or epoxies formulation   Wastewater from odhesives and/or epoxies formulation   Wastewater from odhesives and/or epoxies formulation   Wastewater from organic chemical product operations	<u> </u>	· · · · · · · · · · · · · · · · · · ·
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Took sleep out from armeds non-natroloum sources	-1 rain ocon dat tion or Bauch tron bon occasi and and		Tank clean-out from organic, non-petroleum sources

(+1)	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.
	Cadmium: 0.2 mg/L
	Chromium: 8.9 mg/L
	Copper: 4.9 mg/L
	Nickel: 37.5 mg/L
(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.
	Metals Subcategory
	☐ Oils Subcategory
	Organics Subcategory

#### SECTION 13: Additional instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



1775 Moriah Woods Blvd., Ste. 12 . Memphis, TN 38117 . (901) 398-4001 Fax: (901) 398-4223

VULCRAFT-TEXAS ATTN: JEFF HALL 100 NORTH MAIN GRAPELAND, TX 75844 August 21, 2008

ACCOUNT #: 09-0301

**REPORT NUMBER: 231-08-005** 

# Laboratory Report Case Narrative

On August 16, 2008, ten samples were submitted to the laboratory for analyses detailed on the chain of custody accompanying the samples. The samples were received, sealed and in good condition. There were no analytical problems encountered and the results are on the succeeding pages.

If you have any questions about this report please do not hesitate to contact me.

Thank you for using Cornerstone Laboratories.

Sincerely,

Samuel J. LaBonia

President and Technical Director

1 of 6

EPA#TN01074 AOCS#485183 ADEQ#88-0859 AOAC#93939 APHA#9798654 ASTA LISTED

## CORNERSTONE LABORATORIES, LLC

**VULCRAFT-TEXAS** 

August 21, 2008

ACCOUNT #: 09-0301

**REPORT NUMBER: 231-08-005** 

### **TCLP Metals**

**Laboratory Number: 51851** 

Sample ID: Floor Dry Tumbled: August 18, 2008

	I	Regulatory			\
ANALYSIS	RESULT 1	imit	METHOD	DATE/TIME ANALYZED	ANALYST
Arsenic	<0.050 mg/L 5	5.0  mg/L	6010B	08/20/08 12:13	M. Blum
Barium	0.962 mg/L 1	100.0 mg/L	6010B	08/20/08 12:13	M. Blum
Cadmium	<0.050 mg/L 1	1.0 mg/L	6010B	08/20/08 12:13	M. Blum
Chromium	<0.050 mg/L 5	5.0 mg/L	6010B	08/20/08 12:13	M. Blum
Lead	<0.050 mg/L 5	5.0 mg/L	6010B	08/20/08 12:13	M. Blum
Mercury	<0.009 mg/L 0	).2 mg/L	7040	08/20/08 15:00	M. Blum
Selenium	<0.050 mg/L 1	.0 mg/L	6010B	08/20/08 12:13	M. Blum
Silver	<0.010 mg/L 5	5.0 mg/L	6010B	08/20/08 12:13	M. Blum

Laboratory Number: 51852

Sample ID: Chrome Joist Waste Paint Tumbled: August 18, 2008

	Kegulatory			
ANALYSIS	RESULT Limit	_METHOD	DATE/TIME ANALYZED	ANALYST
Arsenic	<0.050  mg/L 5.0 mg/L	6010B	08/20/08 12:16	M. Blum
Barium	1.950 mg/L 100.0 mg/L	6010B	08/20/08 12:16	M. Blum
Cadmium	<0.050 mg/L 1.0 mg/L	6010B	08/20/08 12:16	M. Blum
Chromium	101.050 mg/L 5.0 mg/L	6010B	08/20/08 12:16	M. Blum
Lead	< 0.050  mg/L 5.0 mg/L	6010B	08/20/08 12:16	M. Blum
Mercury	< 0.009  mg/L  0.2  mg/L	7040	08/20/08 15:00	M. Blum
Selenium	<0.050 mg/L 1.0 mg/L	6010 <b>B</b>	08/20/08 12:16	M. Blum
Silver	< 0.010  mg/L 5.0  mg/L	6010B	08/20/08 12:16	M. Blum

Laboratory Number: 51853

Sample ID: Alu Joist Waste Paint Tumbled: August 18, 2008

		Regulatory			
ANALYSIS	RESULT	Limit	METHOD	DATE/TIME ANALYZED	ANALYST
Arsenic	<0.050 mg/L	5.0 mg/L	6010B	08/20/08 12:19	M. Blum
Barium	1.153 mg/L	100.0 mg/L	6010B	08/20/08 12:19	M. Blum
Cadmium	<0.050 mg/L	1.0  mg/L	6010B	08/20/08 12:19	M. Blum
Chromium	<0.050  mg/L	5.0  mg/L	6010B	08/20/08 12:19	M. Blum
Lead	0.208 mg/L	5.0 mg/L	6010B	08/20/08 12:19	M. Blum
Mercury	< 0.009  mg/L	0.2  mg/L	7040	08/20/08 15:00	M. Blum
Selenium	<0.050 mg/L	1.0 mg/L	6010B	08/20/08 12:19	M. Blum
Silver	<0.010 mg/L	5.0 mg/L	6010B	08/20/08 12:19	M. Blum

 
 North Water District
 Test Report
 Report #143642
 Report Generaled

 NATE Favor Trail - The Weiglands. TX 77385
 CKG Services CKG Services
 54/04/2008-17:15

 1936/321-(0)60 - fox (136) \$21-6061: state@overlix.com
 Sample Date: 10/27/2008
 Site: 10/2511:1000
 Page: 1 of 1
 #173 Favin Trail - The Welodiants, TX 77385. (936):321-6060 - 68 (936):321-606: labegrowd screen. Unknown Collection Point - Grab Sample Time C Received Lab TPH Solids 10/27 10:00 ZM 10/27 13:54 535610

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Page 3 of 3

(936) 331-4660 - 0x (1936) 321-4661 - 1ah@awels.com
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Unknown Collection Point - Grab										
			Standard	Blank						
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10/27 10:00	ŽΜ	10/27 13:54	524/500 1200 1200 1	<50 10025 12:00 JL						

Analysis	Reporting Limit
TPH 58CM (TCEQ 1005)	50 Arg/kg

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-	18b	Alternate Facility (or General	rator)		<u> </u>	<u></u>	lanifest Referenc	e Number:	U.S. EPA ID N	lumber		<u> </u>	· · · · ·
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DESIGNATED FACILITY	19. H	lazardous Waste Report M	anagement Method	Codes (i.e., codes f	or hazardous waste tre	eatment, disposal, and re	cycling systems)						
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$\  \ $		esignated Facility Owner o	or Operator: Certific	ation of receipt of ha	zardous materials cov	ered by the manifest exc Signature	ept as noted in Ite	m 18a		· ·	Ma	nth Day	Year
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4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460

Fax. (713) 676-1460

absorbent w Dieseltoil

## Waste Pre-Acceptance/Approval Letter

Date 11/7/2008

Dear Zac or Dave

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-2807

Expiration Date 6/4/2010

CKA - Customer

Generator: Williams Brothers Construction (242)

Address: Hwy 242

Spring, TX 77301

Waste Information

Name of Waste: Dirt contaminated w/diesel

TCEQ Waste Code #: CESQ4891

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

From spill/facility regular maintenance. Unused low sulfur diesel from filling area.

Color: dark

Odor: diesel

pH: neutral

**Physical State:** 

**Incompatibilities:** oxidizers

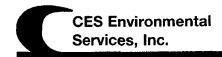
Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road

Houston, TX 77021 Fax: (713) 676-1676

Phone: (713) 676-1460 Fax: (713) 676-1676 http://www.cesenvironmental.com TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461

**ISWR No: 30900** 

SECTION 1: Gener	ator Informatio	on		_									
Company :	Williams Bro	thers Co	nstructio	n (242)									
Address :	Hwy 242												
City, State, Zip:	Spring TX 77	7301											
Contact :	Zac						_Title :						
Phone No :	(281) 541-48	329					Fax:	(9	36) 756-	1226			
24 / HR Phone :							<del></del>						
U.S EPA I.D No :	TXCESQ						_						
State I.D :	CESQG						SIC Co	de					
SECTION 2: Billing	Information												
Company :	CKG Service	es Conro	е	-									
Address :	10707 Hone	a Egypt l	Road 10	707 Honea	Egypt Ro	oad							
City, State, Zip :	Montgomery	TX 773′	16										
Contact :	Zac or Dave						Title :						
Phone No :	(936) 483-36	62					Fax:	(9:	36) 483-	3674			
SECTION 3: Gener	al Description	of the W	aste	_									
Name of Waste :	Dirt contamir	nated w/c	diesel										
Detailed Descrip	tion of the Pr	ocess C	eneratin	g Waste:									
From spill/facility r	regular mainte	nance.	Unused I	ow sulfur o	liesel fron	n filling	area.						
Physical State :	Liqui	d		Sludge		Po	wder						
	<b>✓</b> Solid			Filter Cak	æ	Co	mbinatio	n					
Color :	-		da	rk	Od	lor :					diesel		
Specific Gravity (	(Water=1) :		na	3	De	nsity :				na			bs / gal
Does this material	contain any to	tal phenc	olic compo	ounds?	☐ Ye	s	<b>✓</b> No						
Does this material	contain any pa	ıra substi	ituted phe	nolic comp	oounds?	[	Yes	[	<b>✓</b> No				
ls the Waste subjec	ct to the benze	ne waste	operation	NESHAP?	(40 CFR	Part 61,	Subpart	FF)		Yes	<b>y</b>	No	
2812 2813 2	2816 2819	2821	2822 2	823 2824	2833	2834	2835	2836	2841	2842	2843	2844	2851
2861 2865 2	2869 2873	2874	2876 28	879 2891	. 2892	2893	2896	2899	2911	3312	4953	4959	9511
Layers :	<b>✓</b> Singl	le-Phas	8	Multi-Ph	ase								
Container Type :	<b>✓</b> Drum	1	Tota	•	Truck	✓	Other (	explai	n)		roll	off	
Container Size :	55gal/10	) yd											
Number Of Units	:1	<del>,</del> .											
Is this a USEPA "I		-			_	<b>Yes</b> onstitue	✓ No		d hereto				
If "Yes", is it:	D001	D002	_ D0										

Characteristic for Toxic i			D000	D007	
	_ D008	D009	D010	D011	
Characteristics for Toxic	Organics: D012 thru D0	)43 (please list	all that apply)	)	
Is this an "F" or "K" Liste			s 🗸 No	) 	
If "Yes", then please	list ALL applicable codes	s:			
Is this a commercial process. 261.33(e) or (f)?	duct or spill cleanup tha	t would carry a	"U" or "P" wa	ste code under 40 CFR	Yes No
If "Yes", then please	list ALL applicable code	es:			
Texas State Waste Code	e No : CESQ	24891			
Proper U.S. State Waste	Code No :		Non-RCRA/N	on-DOT Regulated Materi	al
Class: na	UN/NA :	na	PG:	na	RQ: na
Flash Point	рН	Reactiv	e Sulfides	Reactive Cyanides	Solids
>200	neutral		0 mg/l	0 mg.	// 100 %
Oil and Grease	тос		Zinc	Copper	Nickel
>1500 mg/	na m	ng/l	na mg/	na mg.	/I na mg
SECTION 4: Physical and C	Chemical Data				
SECTION 4. Physical and C	COMPONENTS TA	DIE and date follow		Concentr	ration Units
The material	product consists of the	4 5 Testin, 11 10 080 05, 547 4 Company 008 1 4460 688444	aterials	Ranges are a	SUNTERNATIONS CONTROL OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE ST
	dirt			85-10	
	diesel			0-15	5 %
SECTION 5: Safety Related		£ a!a! 4.	_4		
If the handling of this wastd	aste requires the use o	ot special prote	ective equipm	ient, piease expiain.	
SECTION 6: Attached Supp	orting Documents				
List all documents, note	s, data, and/or analysi	s attached to t	his form as p	art of the waste approva	ıl package.
none					
SECTION 7: Incompatibilities Please list all incompatil					
oxidizers	omues (if any):				
SECTION 8: Generator's Kn	owledge Documentation				
Laboratory analysis of the		aracteristics, I	isted below,	WAS NOT PERFORMED	based upon the
TCLP Metals :	<u>x</u>				
TCLP Volatilies :	<u>x</u>				
TCLP Semi-Volatiles :	<u>x</u>				
Reactivity :	<u>x</u>				
		2			

SECTION	ON 9: Waste Receipt Classification Under 40 CFR 437
ls this	material a wastewater or wastewater sludge ?
If 'YES	S', complete this section
PLEA	SE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE
Matals	s Subcategory: Subpart A
	Spent electroplating baths and/or sludges
	Metal finishing rinse water and sludges
	Chromate wastes
	Air pollution control blow down water and sludges
	Spent anodizing solutions
	Incineration wastewaters
	Waste liquid mercury
	Cyanide-containing wastes greater than 136 mg/l
	Waste acids and bases with or without metals
	Cleaning, rinsing, and surface preparation solutions from electroplating or phospha
	Vibratory deburring wastewater
	Alkaline and acid solutions used to clean metal parts or equipment
0:1- 0	wheeter and Cubmont P
Olis 5	ubcategory: Subpart B Used oils
	Oil-water emulsions or mixtures
	Lubricants
	Coolants
	Contaminated groundwater clean-up from petroleum sources
	Used petroleum products Oil spill clean-up
	Bilge water
	Rinse/wash waters from petroleum sources
	Interceptor wastes
	Off-specification fuels
	Underground storage remediation wastes
	Tank clean-out from petroleum or oily sources
	Non-contact used glycols
	Aqueous and oil mixtures from parts cleaning operations
	Wastewater from oil bearing paint washes
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Organ	ics Subcategory Subpart C
	Landfill leachate
	Contaminated groundwater clean-up from non-petroleum sources
	Solvent-bering wastes
	Off-specification organic product
	Still bottoms
	Byproduct waste glycol
	Wastewater from paint washes
	Wastewater from adhesive and/or epoxies formulation
	Wastewater from organic chemical product operations

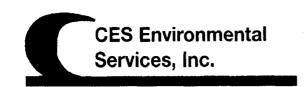
Corrosivity : lgnitability :

x

HOU-2807

Approval Number:

**pH:** 4-10



## Waste Pre-Acceptance/Approval Letter

Date 9/19/2008

Dear Todd

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

**CES Profile #** 2995

Expiration Date 9/17/2010

& Services 10'
Humicane 1ke
clean up Generator: Wal-mart Store #504 c/d Environmental Products & Services

6702 Seawall Blvd. Address:

Galveston, TX 77551

Waste Information

Name of Waste: Oily Debris TCEQ Waste Code #: CESQ4091

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

debris collected from hurricane clean-up containing water, dirt, and oil

Color: dark **Odor:** hydrocarbon

**Physical State:** 

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 3090 ISWR No: 30900

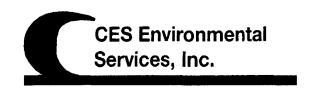
Company: Wal-mart Store #504 c/o Environmental Products & Services  Address: 6702 Seawall Blvd. 702 SW 6th Street  City, State, Zip: Galveston TX 77551  Contact: Todd Title:  Phone No: Fax:  24 / HR Phone:  U.S EPA I.D No: na State I.D: na SIC Code  SECTION 2: Billing Information  Company: Environmental Products & Services  Address: emergency response for various locations 40 Hamilton Ln.  City, State, Zip: Glemment, NY 12077  Contact: Todd or Jake Title:  Phone No: (315) 480-4357 (404) \$16-2940 Fax:  SECTION 3: General Description of the Waste  Name of Waste: Oily Debris
City, State, Zip: Galveston TX 77551  Contact: Todd Title: Phone No: Fax:  24 / HR Phone:  U.S EPA I.D No: na State I.D: na SIC Code  SECTION 2: Billing Information  Company: Environmental Products & Services Address: emergency response for various locations 40 Hamilton Ln.  City, State, Zip: Glement, NY 12077  Contact: Todd or Jake Title: Phone No: (315) 480-4357 (404) 516-2940 Fax:  SECTION 3: General Description of the Waste
Contact: Todd Title: Phone No: Fax:  24 / HR Phone:  U.S EPA I.D No: na State I.D: na SIC Code  SECTION 2: Billing Information  Company: Environmental Products & Services Address: emergency response for various locations 40 Hamilton Ln.  City, State, Zip: Clement, NY 12077  Contact: Todd or Jake Title: Phone No: (315) 480-4357 (404) 516-2940 Fax:  SECTION 3: General Description of the Waste
Phone No:  24 / HR Phone:  U.S EPA I.D No: na State I.D:  na SIC Code  SECTION 2: Billing Information  Company: Environmental Products & Services  Address: emergency response for various locations 40 Hamilton Ln.  City, State, Zip: Contact: Todd or Jake Title: Phone No: (315) 480-4357 (404) 516-2940  Fax:  SECTION 3: General Description of the Waste
24 / HR Phone:  U.S EPA I.D No: na State I.D: na SIC Code  SECTION 2: Billing Information  Company: Environmental Products & Services  Address: emergency response for various locations 40 Hamilton Ln.  City, State, Zip: Clement, NY 12077  Contact: Todd or Jake Title:  Phone No: (315) 480-4357 (404) 516-2940 Fax:  SECTION 3: General Description of the Waste
U.S EPA I.D No: na State I.D: na SIC Code  SECTION 2: Billing Information  Company: Environmental Products & Services Address: emergency response for various locations 40 Hamilton Ln.  City, State, Zip: Clement, NY 12077  Contact: Todd or Jake Title: Phone No: (315) 480-4357 (404) 516-2940 Fax:  SECTION 3: General Description of the Waste
State I.D:  na SIC Code  SECTION 2: Billing Information  Company: Environmental Products & Services  Address: emergency response for various locations 40 Hamilton Ln.  City, State, Zip: Gleament, NY 12077  Contact: Todd or Jake Title:  Phone No: (315) 480-4357 (404) 516-2940 Fax:  SECTION 3: General Description of the Waste
SECTION 2: Billing Information  Company: Environmental Products & Services  Address: emergency response for various locations 40 Hamilton Ln.  City, State, Zip: Glennent, NY 12077  Contact: Todd or Jake Title:  Phone No: (315) 480-4357 (404) 516-2940 Fax:  SECTION 3: General Description of the Waste
Company: Environmental Products & Services  Address: emergency response for various locations 40 Hamilton Ln.  City, State, Zip: Cleament, NY 12077  Contact: Todd or Jake Title:  Phone No: (315) 480-4357 (404) 516-2940 Fax:  SECTION 3: General Description of the Waste
Company: Environmental Products & Services  Address: emergency response for various locations 40 Hamilton Ln.  City, State, Zip: Cleament, NY 12077  Contact: Todd or Jake Title:  Phone No: (315) 480-4357 (404) 516-2940 Fax:  SECTION 3: General Description of the Waste
Address: emergency response for various locations 40 Hamilton Ln.  City, State, Zip: Glennont, NY 12077  Contact: Todd or Jake Title:  Phone No: (315) 480-4357 (404) 516-2940 Fax:  SECTION 3: General Description of the Waste
City, State, Zip: Cleament, NY 12077  Contact: Todd or Jake Title:  Phone No: (315) 480-4357 (404) 516-2940 Fax:  SECTION 3: General Description of the Waste
Contact: Todd or Jake Title:  Phone No: (315) 480-4357 (404) 516-2940 Fax:  SECTION 3: General Description of the Waste
Phone No: (315) 480-4357 (식 0 나) 516-2위4 이 Fax: SECTION 3: General Description of the Waste
SECTION 3: General Description of the Waste
The Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Co
Than of Tractor on poorte
Detailed Description of the Process Generating Waste:
debris collected from hurricane clean-up containing water, dirt, and oil
Physical State: V Liquid Powder
✓ Solid Filter Cake Combination
Color : dark Odor : hydrocarbon
Specific Gravity (Water=1): na Density: na lbs / gal
Does this material contain any total phenolic compounds? Yes No
Does this material contain any para substituted phenolic compounds?
Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF)
2812 2813 2816 2819 2821 2822 2823 2824 2833 2834 2835 2836 2841 2842 2843 2844 2851
2861 2865 2869 2873 2874 2876 2879 2891 2892 2893 2896 2899 2911 3312 4953 4959 9511
Layers: Single-Phas Multi-Phase
Container Type: 📝 Drum 🗌 Tote 🗍 Truck 🗍 Other (explain)
Container Size : 55
Number Of Units: 5
Is this a USEPA "Hazardous Waste" per 40 CFR 261.3? Yes No  If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto
If "Yes", is it: D001 D002 D003

Characteristic for Toxic Mo	etals: D004 D0 D008 D0			
Characteristics for Toxic C	Organics: D012 thru D043 (p			
Is this an "F" or "K" Lister	I waste or mixed with one?	Yes V No	Same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same and the same	
	st ALL applicable codes:	Control and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second		
Is this a commercial produ 261.33(e) or (f)?	uct or spill cleanup that wou	uld carry a "U" or "P" wast	te code under 40 CFR	Yes 🗸 No
If "Yes", then please i	ist ALL applicable codes:			
Texas State Waste Code	No: CESA 40	91		
Proper U.S. State Waste	Code No :	Non-RCRA/Non-DOT	Regulated Material (oily del	bris)
Class: na	UN/NA: na	PG:	na	RQ: na
Flash Point	рН	Reactive Sulfides	Reactive Cyanides	Solids
>200	4-10	0 mg/l	0 mg/l	0-4 %
Oil and Grease	TOC	Zinc	Copper	Nickel
>1500 mg/l	0 mg/l	0 mg/l	0 mg/l	0 mg/
SECTION 4: Physical and Ch	nemical Data			
	COMPONENTS TABLE		Concentration	on Units
The material /	product consists of the fo	llowing materials	Ranges are acce	ptable or %
	oil		5-10	%
	water solids (oil, dirt, sand, debris	a)	5-10 80-90	%
	· · · · · · · · · · · · · · · · · · ·	,		
SECTION 5: Safety Related I	)ata			
AND THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON O	ste requires the use of sp	ecial protective equipme	nt. please explain.	
standard PPE				
SECTION 6: Attached Suppo				
	, data, and/or analysis att	ached to this form as par	rt of the waste approval pa	ackage.
none				
SECTION 7: Incompatibilities	\$			
Please list all incompatib				
oxidizers				
SECTION 8: Generator's Kno			A S NOT SERVED !	t i i i i tt
Laboratory analysis of the following generators known		iteristics, listed below, W	VAS NUT PERFORMED bas	sea upon the
TCLP Metals :	X			
TCLP Volatilies :	<u>X</u>			
TCLP Semi-Volatiles :	X			
Reactivity:	X			
		2		

COHO	SIVILY.
Ignita	bility: X
SECTI	ON 9; Waste Receipt Classification Under 40 CFR 437
	material a wastewater or wastewater sludge ? YES V NO
If 'YES	S', complete this section
PLEA	SE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE
	s Subcategory: Subpart A
	Spent electroplating baths and/or sludges
	Metal finishing rinse water and sludges
Ō	Chromate wastes
prome.	Air pollution control blow down water and sludges
ā	Spent anodizing solutions
	Incineration wastewaters
	Waste liquid mercury
	Cyanide-containing wastes greater than 136 mg/l
	Waste acids and bases with or without metals
	Cleaning, rinsing, and surface preparation solutions from electroplating or phospha
	Vibratory deburring wastewater
	Alkaline and acid solutions used to clean metal parts or equipment
Oile S	Subcatovoni: Subnart R
	Subcategory: Subpart B Used oils
	Oil-water emulsions or mixtures
Ö	Lubricants
	Coolants
	Contaminated groundwater clean-up from petroleum sources
Ō.	Used petroleum products
	Oil spill clean-up
	Bilge water
	Rinse/wash waters from petroleum sources
	Interceptor wastes
$\square$	Off-specification fuels
<b>.</b>	Underground storage remediation wastes
	Tank clean-out from petroleum or oily sources
	Non-contact used glycols
	Aqueous and oil mixtures from parts cleaning operations
Ĺ	Wastewater from oil bearing paint washes
Organ	nics Subcategory Subpart C
	Landfill leachate
	Contaminated groundwater clean-up from non-petroleum sources
	Solvent-bering wastes
	Off-specification organic product
	Still bottoms
	Byproduct waste glycol
	Wastewater from paint washes
Œ.J	Wastewater from adhesive and/or epoxies formulation
	Wastewater from organic chemical product operations

3

Tank clean-out from organic, non-petroleum sources	
(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste	should be classified in the oils subcategory
(2) If the waste contains oil and grease less than 100 mg/L, and has any of the excess of the values listed below, the waste should be classified in the me	
Cadmium: 0.2 mg/L Chromium: 8.9 mg/L	
Copper: 4.9 mg/L Nickel: 37.5 mg/L	
(3) If the waste contains oil and grease less than 100 mg/L, and does not have or nickel above any of the values listed above, the waste should be classif	e concentrations of cadmium, chromium, copper, lied in the organics subcategory.
Metals Subcatego	
☑ Oils Subcatego	
☐ Organics Subcategory	
SECTION 10: Additional Instruction	
If you cannot determine the correct subcategory in Section 9 and you did not for Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a concentrations. This will be prior to acceptance. The generator will be response	nmercial laboratory a sample to determine these
SECTION 11: Generator's Certification	
The information contained herein is based on 📝 generator knowledge a	
above and attached description is complete and accurate to the best of n deliberate or willful omissions of composition properties exist and that a	ny knowledge and ability to determine that no Il known or suspected hazards have been
disclosed. I certify that the materials tested are representative of all materials to the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state	erials described by this document.
Authorized Signature:	Date: 9/18/2008
Printed Name / Title: / Swit allows Project Manages	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information :
Compliance Officer: Label Hat	magazine - Angazi
Date: 9/17/2008 Status: Approved Rejected	
Approval Number: 2995	TO THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF TH
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## Waste Pre-Acceptance/Approval Letter

Date 9/30/2008

Dear Michel Skok

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3010

Expiration Date 9/30/2010

Generator: International Celluluse

Address: 12315 Robin Rd

Houston, TX 77045

Waste Information

Name of Waste: RCRA empty containers

TCEQ Waste Code #: Recycle

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

empty containers

Color: na Odor: na

pH: na

NH Dums

**Physical State:** 

Incompatibilities: none

Safety Related Data/Special Handling:

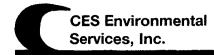
std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900



SECTION 1: Genera	ator Information							-					
Company:	International Cell	uluse											
Address :	12315 Robin Rd												
City, State, Zip:	Houston TX 7704	5											
Contact :	Michel Skok						Title :						
Phone No :	(713) 433-6701						Fax:	(	713) 433-	2900			
24 / HR Phone :							_	_					
U.S EPA I.D No:	TXCESQG						_						
State I.D :	CESQG					,	SIC Co	ode					
SECTION 2: Billing	Information												
Company:	International Cell	uluse											
Address :	12315 Robin Rd												
City, State, Zip:	Houston TX 7704	5											
Contact :	Michel Skok						_Title:						
Phone No :	(713) 433-6701						Fax:	(	713) 433-	2900			
SECTION 3: Genera	l Description of the	e Waste											
Name of Waste:	RCRA empty con	tainers											
Detailed Descript	ion of the Proces	s General	ting Wa	ste:									
empty containers			_										
Physical State :	Liquid		Sluc	lae		□ Po	wder						
yo.aa. o.a.o.													
	<b>✓</b> Solid		Filte	r Cake		Co	mbinatio	n					
Color:			na	···	Od	or:		_			na		
Specific Gravity (	Water=1) :		na		Dei	nsity :				na		1	bs / gal
Does this material of	ontain any total ph	enolic com	pounds	?	Ye	s	<b>✓</b> No						J
Does this material of	ontain any para su	bstituted p	henolic	compou	ınds?		Yes		<b>✓</b> No				
Is the Waste subjec	t to the benzene wa	ste operati	ion NES	HAP? (4	0 CFR F	Part 61,	Subpart I	FF)		Yes	<b>~</b>	No	
2812 2813 2	816 2819 2821	. 2822	2823	2824	2833	2834	2835	2836	2841	2842	2843	2844	2851
2861 2865 2	869 2873 2874	2876	2879	2891	2892	2893	2896	2899	2911	3312	4953	4959	9511
Layers :	✓ Single-Ph	as	Mult	i-Phas	е								
Container Type :	<b>✓</b> Drum	To	ote		Truck		Other (	expla	in)				
Container Size :	55 gal					-	·	·	,				
Number Of Units													
Is this a USEPA "H	The second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of th	ner 40 CEB	2 261 22	•	اللا ،	Yes	✓ No	^					
	ase complete, sign a	_			_				ed hereto				
If "Yes", is it:	D001 🗌 D00		D003										

Characteristic for Toxi	c Metals: 🗌 Do	004 🗌 D	005 🗌 DO	06 🗌 1	D007			
t.	□ D	O 🗌 800	009 🗌 DO	)10 🗌 [	0011			
Characteristics for Tox	cic Organics: D012	2 thru D043 (	please list all t	hat apply)				
Is this an "F" or "K" Li	sted waste or mix	ed with one?	Yes	<b>✓</b> No				
If "Yes", then pleas	se list ALL applical	ble codes:						
Is this a commercial page 261.33(e) or (f)?	roduct or spill clea	anup that wo	uld carry a "U"	or "P" wast	te code under 40	CFR 🗌 Ye	es 🗸 No	)
If "Yes", then plea	se list ALL applica	ble codes:					***************************************	
Texas State Waste Co	de No :	Recycle						
Proper U.S. State Was	te Code No :	_	Nor	-RCRA/Nor	n-DOT Regulated	Material		
Class: na	UN/N	A: na		PG:	na		RQ:	na
Flash Point	рН	T	Reactive S	ulfides	Reactive Cyar	nides	Solids	
na	na	ไ	na	mg/l	na	mg/l	na	_ %
Oil and Grease	тос	3	Zinc		Copper		Nickel	
na m	g/I na	mg/l	na	mg/l	na	mg/l	na	mg/l
SECTION 4: Physical and		UZO EA DI E			whose Compositions are			20.5 NEW 1814
The materia	I / product consi	NTS TABLE sts of the fo	llowing mater	ials	INCOME AND AND AND AND AND AND AND AND AND AND	ncentration s are accepta	erenerales de la company de la company	nits r%
		containers	<u> </u>			100		%
								- 1
								]
	_	<del></del>					<del></del> -	
SECTION 5: Safety Relate								
<b>If the handling of this</b> v standard	waste requires tr	ne use of spe	ecial protectiv	e equipme	nt, please explai	n.		
otariaara								
SECTION 6: Attached Su	oporting Document	ts						
List all documents, no	tes, data, and/or	analysis atta	ached to this	orm as par	t of the waste a	oproval pack	age.	
none								
•								
SECTION 7: Incompatibil								
Please list all incompa none	tibilities (if any):							
SECTION 8: Generator's l	Knowledge Docum	entation						
Laboratory analysis of following generators k		vaste charac	teristics, liste	d below, W	AS NOT PERFO	RMED based	d upon the	
TCLP Metals :	<u>x</u>							
TCLP Volatilies :	<u>x</u>							
TCLP Semi-Volatiles :	×							
Reactivity :	X							
			2					

SECTI	ON 9: Waste Receipt Classification Under 40 CFR 437
Is this	material a wastewater or wastewater sludge ?
If YES	S', complete this section
PLEA	SE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE
	s Subcategory: Subpart A
	Spent electroplating baths and/or sludges
$\overline{\Box}$	Metal finishing rinse water and sludges
	Chromate wastes
$\overline{\Box}$	Air pollution control blow down water and sludges
П	Spent anodizing solutions
	Incineration wastewaters
	Waste liquid mercury
	Cyanide-containing wastes greater than 136 mg/l
	Waste acids and bases with or without metals
	Cleaning, rinsing, and surface preparation solutions from electroplating or phospha
	Vibratory deburring wastewater
	Alkaline and acid solutions used to clean metal parts or equipment
Oils S	ubcategory: Subpart B
	Used oils
	Oil-water emulsions or mixtures
	Lubricants
	Coolants
	Contaminated groundwater clean-up from petroleum sources
	Used petroleum products Oil spill clean-up
	Bilge water
	Rinse/wash waters from petroleum sources
	Interceptor wastes
П	Off-specification fuels
	Underground storage remediation wastes
	Tank clean-out from petroleum or oily sources
	Non-contact used glycols
	Aqueous and oil mixtures from parts cleaning operations
	Wastewater from oil bearing paint washes
Organ	ics Subcategory Subpart C
	Landfill leachate
	Contaminated groundwater clean-up from non-petroleum sources
	Solvent-bering wastes
	Off-specification organic product
	Still bottoms
	Byproduct waste glycol
	Wastewater from paint washes
	Wastewater from adhesive and/or epoxies formulation
	Wastewater from organic chemical product operations

Corrosivity:

Ignitability:

X

<u>X</u>

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the wast	
(1) It the waste contains on and grease at or in excess or 100 mg/L, the wast	te should be classified in the oils subcategory
(2) If the waste contains oil and grease less than 100 mg/L, and has any of t excess of the values listed below, the waste should be classified in the m	
Cadmium: 0.2 mg/L	
Chromium: 8.9 mg/L Copper: 4.9 mg/L	
Nickel: 37.5 mg/L	
(3) If the waste contains oil and grease less than 100 mg/L, and does not have or nickel above any of the values listed above, the waste should be class	
☐ Metals Subcatego	
☐ Oils Subcatego	
☐ Organics Subcategory	
SECTION 10: Additional Instruction	
SECTION 11: Generator's Certification  The information contained herein is based on generator knowledge above and attached description is complete and accurate to the best of deliberate or willful omissions of composition properties exist and that a disclosed. I certify that the materials tested are representative of all materials.	my knowledge and ability to determine that no all known or suspected hazards have been
The information contained herein is based on generator knowledge above and attached description is complete and accurate to the best of deliberate or willful omissions of composition properties exist and that a disclosed. I certify that the materials tested are representative of all materials.	my knowledge and ability to determine that no all known or suspected hazards have been terials described by this document.
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The information contained herein is based on    generator knowledge above and attached description is complete and accurate to the best of deliberate or willful omissions of composition properties exist and that a disclosed. I certify that the materials tested are representative of all materials disclosed. I certify that the materials tested are representative of all materials disclosed. I certify that the materials tested are representative of all materials disclosed. I certify that the materials tested are representative of all materials disclosed. I certify that the materials tested are representative of all materials disclosed. I certify that the materials tested are representative of all materials disclosed. I certify that the materials tested are representative of all materials disclosed. I certify that the materials tested are representative of all materials disclosed. I certify that the materials tested are representative of all materials disclosed. I certify that the materials tested are representative of all materials disclosed. I certify that the materials tested are representative of all materials disclosed. I certify that the materials tested are representative of all materials disclosed. I certify that the materials tested are representative of all materials disclosed. I certify that the materials tested are representative of all materials disclosed. I certify that the materials disclosed are representative of all materials disclosed. I certify that the materials disclosed are representative of all materials disclosed are representative of all materials disclosed are representative of all materials disclosed are representative of all materials disclosed are representative of all materials disclosed are representative of all materials disclosed are representative of all materials disclosed are representative of all materials disclosed are representative of all materials disclosed are representative of all materials disclosed are representative of all materials disclosed are representative of all m	my knowledge and ability to determine that no all known or suspected hazards have been terials described by this document.  Date:
The information contained herein is based on generator knowledge above and attached description is complete and accurate to the best of deliberate or willful omissions of composition properties exist and that a disclosed. I certify that the materials tested are representative of all materials disclosed. Signature:  Printed Name / Title:  CES USE ONLY (DO NOT WRITE IN THIS SPACE)	my knowledge and ability to determine that no all known or suspected hazards have been terials described by this document.  Date:  Process Facility Information:
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Tank clean-out from organic, non-petroleum sources

5



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

o flydr

# Waste Pre-Acceptance/Approval Letter

Date 8/19/2008

Dear Mike Savoy

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

**CES Profile #** 2933

Expiration Date 8/19/2010

Generator: Magellan Midstream Partners

7901 Wallisville Rd. Address:

Houston, TX 77029

Waste Information

Name of Waste: Hydrocarbon and water mixture

TCEQ Waste Code #: Recycle

Container Type:

**Detailed Description of Process Generating Waste:** 

Jet A and water from cleaning an underground storage tank

Color: clear to black **Odor:** hydrocarbon

**pH**: 5-9

**Physical State:** 

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

level C ppe

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road

Houston, TX 77021 Fax: (713) 676-1676

Phone: (713) 676-1460 Fax: (713) 6 http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 **ISWR No: 30900** 

SECTION 1: Gener	ator Informati	on												
Company:	Magellan Mi	dstrean	Partne	ers										
Address :	7901 Wallis	ville Rd.	200 S	outh 16	th Stre	et								
City, State, Zip:	Houston TX	77029												
Contact :	Mike Savoy							Title:						
Phone No :	(713) 264-26	329						Fax:	(7	713) 933	-0608			
24 / HR Phone:								_						*
U.S EPA I.D No :	na							_						
State I.D:	na	<del></del>		· .			· ·	SIC Co	de _				<u> </u>	
SECTION 2: Billing	Information													
Company:	Magellan Mi	dstream	Partne	ers										
Address :	7901 Wallis	ville Rd.	200 S	outh 16	th Stree	et .			-		<u></u>			
City, State, Zip:	Houston TX	77029				<del>;-\ -</del>				~ ~				
Contact :	Mike Savoy							Title:						
Phone No:	(713) 264-26	329						Fax:	(7	13) 933	-0608			
SECTION 3: Gener	al Description	of the V	Vaste											
Name of Waste :	Hydrocarbor	i and w	ater mix	dure	· · · ·			****						ş., 184 (s.
Detailed Descrip	tion of the P	rocess	Genera	ating W	aste:									
Jet A and water fr	om cleaning a	an unde	rground	d storag	je tank									
Physical State :	<b>✓</b> Liqui	i <b>d</b>		∭ Slu	ıdge		Po	wder						
	Solid	i		Fill	ter Cake	•	Co	mbinatio	n .		•			
Color :			clea	r to bla	ck	O	lor:				hy	drocarb	on	
Specific Gravity (	(Water=1) :			.79		De	nsity :				7-8			lbs / gal
Does this material	contain any to	tal pher	olic co	npound	is?		es	✓ No						
Does this material				_			[	Yes		<b>✓</b> No				
ls the Waste subjec	ct to the benze	ne wast	e opera	tion NE	SHAP?	(40 CFR	Part 61,	Subpart l	FF)		Yes	<b>~</b>	No	
2812 2813 2	2816 2819	2821	2822	2823	2824	2833	2834	2835	2836	2841	2842	2843	2844	2851
2861 2865 2	2869 2873	2874	2876	2879	2891	2892	2893	2896	2899	2911	3312	4953	4959	9511
Layers :	Sing	ie-Phas		<b>✓</b> Mu	ılti-Pha	se								
Container Type :	Drun	n 🖺	] 1	ote	<b>✓</b>	Truck		Other (	expla	in)				
Container Size :	3000	)												
Number Of Units	:1													
Is this a USEPA "I	lazardous Wa	aste" pe	r 40 CF	R 261.3	3?		Yes	<b>✓</b> No	)					
If "Yes", then ple	ease complete,	sign and	date th	e Underl	ying Haz	ardous C	onstituer	nts Form a	ittache	d hereto				
If "Yes", is it:	D001	D002		D003										





4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

	rial Producer Inform Magellen Midstrea						
Company: Address:							
City, State, Zip:	7901 Wall	1029	-				
Contact:	Houston, T Mike Savoy	K 1	IULI	Title:		A cont for	Congretor
Phone No:	713-264-2629						Generator
24/hr Phone:				Fax N	NO:	11337	33-0603
	<u>281-838-5093</u>						
U.S. EPA I.D. No:	NA			GYG	~ 1		
State I.D.	NA			SIC (	Code:		
SECTION 2: Billing	g Information – 🔲 S	ame as	Above				
Company:	One Source Industria		<u></u> _				
Address:	200 South 16th Street	<del></del>					
City, State, Zip:	Laporte, TX 77571	Tanan ta					
Contact:	Mike Savoy		Title:	Agent	for genera	ator	
Phone No:	281-838-5093		Fax No:		67-9032		
-					0, 2022		
SECTION 3: Gener	cal Description of the	Materi	al / Product				
	Product: <u>Hydrocarbo</u> 1 of Process Generati			terial / Pr	oduct: <u>Jet</u>	A and wa	ater from cleaning an underground
Physical State:	Liquid Solid		udge Iter Cake	☐ Pow	der bination		
Color: Clear to Black	<u>s</u> 0	dor: <u>H</u> y	drocarbon				
Specific Gravity (wa	nter=1): <u>.79</u>	Densi	ity: <u>7-8</u> lbs/gal				
Does this material co	ontain any total phen	olic com	npounds? 🗌 Ye	es 🛭 No	)		
Does this material co	ontain any para subs	tituted p	ohenolic compou	ınds? 🔲	Yes 🔀 1	No	
Layers:	☐ Single-phase		Multi-phase				
Container Type: Container Size:	Drum	□ <b>1</b>	ote	⊠ Tru <u>300</u>	ick <u>0 Gal</u>		Other (explain)
<b>I</b>		<u> </u>	er 49.9	_ ^		/	
Frequency:			<b>J</b>	∐ Qua	arterly	Ŋ	Yearly
Number of Units (co	entainers): 1	O	other:				
Proper U.S. DOT St	nipping Name:	Re	ecyclable Hydroc	arbon and	Water Mix	cture	
Class: Na	UN/NA	1: Na	a	PG	: Na		RQ: Na

Flash Point	pН	N/A	N/A	Solids	
<u></u>	<u>5-9</u>			<u>0-10</u> %	
Oil&Grease	TOC \	Zinc	Copper	Nickel	
>1500mg/l	10.00 mg/l	Namg/I	<u>Na</u> mg/l	Namg/i	

#### **SECTION 4: Physical and Chemical Data**

COMPONENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
Jet A (Fuel)	5-38 50	%
Water	50-95	%
Debris (Dirt and Rock)	0-10	%

#### **SECTION 5: Safety Related Data**

If the handling of this material / product requires the use of special protective equipment, please explain.  $\underline{\text{Level C PPE}}$ 

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile. None-Generator Knowledge-Internal Lab Testing

#### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any): Oxidizers

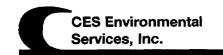
#### **SECTION 8: Material Producer's Certification**

The information contained herein is based on 🛮 generator knowledge and/or 🔲 analytical data. I hereby certify that the above and
attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful
omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials
tested are representative of all materials described by this document.

Authorized Signature: Date: 08/19/08

Printed Name/Title: Ricky Hall Senior operator

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Technical Manager: Labert Liby	
Date: 8-19-08 Approved Rejected	+
Approval Number: 2933	



## PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	35/gal
2.	Contamination Limits (maximum limit before surcharges apply):
	only surcharge if TOC > 70,000
3.	Surcharge Pricing:
	CALL DAN
4.	Special Testing Requirements:
	Flash, phenotic wills % Solids, % Water, %Hydrocarbon TOC on water phase, phono, ph, welds
5.	Treatment and Handling Drotocal.
<b>5.</b>	Treatment and Handling Protocol:  Recycle as light end for the Hydrocarbon portion
	Dispose Solids-Class 1
	Dispose Water through waste water treatment facility
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory C



## PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):
	Light End Compatibility
8.	Management for Product Recovered/Recycled (if applicable);
<b>G.</b>	
	Light Ends



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# Waste Pre-Acceptance/Approval Letter

Date 10/7/2008

Dear Zac or Dave

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3021

**Expiration Date** 10/7/2010

**Generator:** Balfour Beatty

Address: 2334 Franz Rd

Katy, TX 77493

Waste Information

Name of Waste: Recyclable rags and booms

TCEQ Waste Code #: Recycle

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

rags and booms to contain a diesel fueling area

Color: varies

**Odor:** hydrocarbon

**pH**: 2-12

Field Seniu Nork

**Physical State:** 

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gener	ator Informati	on												
Company :	Balfour Bea	tty												
Address :	2334 Franz	Rd 233	4 Fran	z Rd										
City, State, Zip:	Katy TX 774	193												
Contact :	Jesse Meno	loza						_Title:						
Phone No :	(713) 539-5	078						Fax:	(2	281) 395	-3870			
24 / HR Phone:								_						
U.S EPA I.D No:	na							_						
State I.D :	na							SIC Co	ode _				···	
SECTION 2: Billing	Information													
Company :	CKG Servic	es Conr	ое											
Address :	10707 Hone	ea Egypt	Road	10707	Honea E	gypt Ro	pad							
City, State, Zip:	Montgomery	y TX 773	316											
Contact :	Zac or Dave	)						Title:						
Phone No :	(936) 483-3	662						Fax:	(9	36) 483	-3674			
SECTION 3: Gener	al Description	of the V	/aste											
Name of Waste :	Recyclable	rags and	boom	s										
Detailed Descrip	tion of the P	rocess	Genera	ating W	aste:									
rags and booms to	o contain a di	iesel fue	ling are	ea										
Physical State :	Liqu	id		Slu	ıdge		Po'	wder						
	<b>✓</b> Solid	t		Fill	er Cake		Co	mbinatio	on					
Color :			,	varies		Od	or :				hy	drocarbo	on	
Specific Gravity (	(Water=1) :			na		Dei	nsity:				na			lbs / gal
Does this material	contain any to	tal phen	olic co	mpound	s?	☐ Ye	s	<b>✓</b> No						
Does this material	contain any p	ara subs	tituted	phenolic	compo	unds?		Yes		<b>✓</b> No				
is the Waste subjec	ct to the benze	ene wast	e opera	tion NE	SHAP? (4	40 CFR F	Part 61,	Subpart	FF)		Yes	<b>V</b>	No	
2812 2813 2	2816 2819	2821	2822	2823	2824	2833	2834	2835	2836	2841	2842	2843	2844	2851
2861 2865 2	2869 2873	2874	2876	2879	2891	2892	2893	2896	2899	2911	3312	4953	4959	9511
Layers :	✓ Sing	le-Phas	;	Mu	lti-Phas	se .								
Container Type :	<b>✓</b> Drun	n 🔳	] 1	Γote		Truck		Other (	(expla	in)				
Container Size :	55 ga	al												
Number Of Units	:2													
Is this a USEPA "I	ease complete,	sign and	date th	e Underl			<b>Yes</b> onstituer	✓ Nonts Form		ed hereto				
If "Voc" is it.	D001	DOGO		DOOS										

Characteristic for Toxic N	1etals: ☐ D004	_		000 <i>7</i> 0011	
Characteristics for Toxic				7011	
Is this an "F" or "K" Liste		-			
If "Yes", then please			_ Yes ✓ No		
			ald carry a "U" or "P" wast	te code under 40 CFR	Yes 🔽 No
If "Yes", then please	list ALL applicable	codes:			
Texas State Waste Code	No :	Recycle			
Proper U.S. State Waste	Code No :	N	on-RCRA/Non-DOT Regu	lated Material(recyclable rag	s/booms)
Class: na	UN/NA:	na	PG:	na	RQ: na
Flash Point	рН		Reactive Sulfides	Reactive Cyanides	Solids
>200	2-12		0 mg/l	0 mg/l	100 %
Oil and Grease	TOC		Zinc	Copper	Nickel
0 mg/l	0	mg/l	0 mg/i	0 mg/l	0 mg/l
SECTION 4: Physical and C	homical Data				
SECTION 4. Filysical and C	COMPONENTS	TARLE		Concentratio	n Units
The material /	product consists	elematic being in To 3	lowing materials	Ranges are accep	ESTADOS SAR SESSE DE LA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA CALLA
	rags and bo	ooms		90-100	%
	hydrocarbon di	iesel fuel		0-10	%
{					
SECTION 5: Safety Related	Data				
lf the handling of this wa	ste requires the u	se of spe	ecial protective equipmen	nt, please explain.	
standard PPE					
SECTION 6: Attached Suppo			1 - 14 40 5 6		
List all documents, notes none	s, data, and/or ana	ilysis atta	iched to this form as par	t of the waste approval pa	ckage.
none					
SECTION 7: Incompatibilitie	es				
Please list all incompatib	oilities (if any):				
oxidizers					
SECTION 8: Generator's Kno					
Laboratory analysis of th following generators kno		e charac	teristics, listed below, W	AS NOT PERFORMED bas	ed upon the
TCLP Metals :	<u>X</u>				
TCLP Volatilies :	X				
TCLP Semi-Volatiles :	X				
Reactivity :	X				
			2		

lgnita	bility: $\underline{X}$
SECTI	ON 9: Waste Receipt Classification Under 40 CFR 437
Is this	material a wastewater or wastewater sludge ?
If 'YES	S', complete this section
PLEA	SE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE
Matal	s Subcategory: Subpart A
	Spent electroplating baths and/or sludges
	Metal finishing rinse water and sludges
	Chromate wastes
	Air pollution control blow down water and sludges
	Spent anodizing solutions
	Incineration wastewaters
	Waste liquid mercury
	Cyanide-containing wastes greater than 136 mg/l
	Waste acids and bases with or without metals
	Cleaning, rinsing, and surface preparation solutions from electroplating or phospha
	Vibratory deburring wastewater
	Alkaline and acid solutions used to clean metal parts or equipment
Oils S	ubcategory: Subpart B
	Used oils
	Oil-water emulsions or mixtures
	Lubricants
	Coolants
	Contaminated groundwater clean-up from petroleum sources
	Used petroleum products
	Oil spill clean-up
	Bilge water
	Rinse/wash waters from petroleum sources
	Interceptor wastes
	Off-specification fuels
	Underground storage remediation wastes
	Tank clean-out from petroleum or oily sources
	Non-contact used glycols
	Aqueous and oil mixtures from parts cleaning operations
	Wastewater from oil bearing paint washes
Organ	ics Subcategory Subpart C
	Landfill leachate
	Contaminated groundwater clean-up from non-petroleum sources
	Solvent-bering wastes
	Off-specification organic product
	Still bottoms
	Byproduct waste glycol
	Wastewater from paint washes
	Wastewater from adhesive and/or epoxies formulation

Corrosivity:

<u>X</u>

	Tank clean-out from organic, non-petroleum sources	
(1)	If the waste contains oil and grease at or in excess of 100 mg/L, the waste s	should be classified in the oils subcategory
(2)	If the waste contains oil and grease less than 100 mg/L, and has any of the excess of the values listed below, the waste should be classified in the meta	
	Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L	
(3)	If the waste contains oil and grease less than 100 mg/L, and does not have or nickel above any of the values listed above, the waste should be classified	
	☐ Metals Subcatego	
	☐ Oils Subcatego	
	☐ Organics Subcategory	
SE	CTION 10: Additional Instruction	
Ch	you cannot determine the correct subcategory in Section 9 and you did not fur promium, Copper, Nickel, and Oil and Grease, CES will send offsite to a comm ncentrations. This will be prior to acceptance. The generator will be responsib	nercial laboratory a sample to determine these
The abo	CTION 11: Generator's Certification  e information contained herein is based on generator knowledge an ove and attached description is complete and accurate to the best of my liberate or willful omissions of composition properties exist and that all sclosed. I certify that the materials tested are representative of all mater	knowledge and ability to determine that no known or suspected hazards have been
Au	uthorized Signature :	Date: 10/6/2008
Pri	inted Name / Title: Zac McKaughn / owner	
CE	ES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information :
C	ompliance Officer : Prabhakar Thangudu	\$35/drum
	omphance Officer . Frabiliakai Trianguou	
Da	ate: 10/7/2008 Status: Approved Rejected	
Ap	pproval Number: HOU-3021	

## 611 W +12 Total Number of Pages: 16 Laboratory Analysis Report

Job ID: 08110508



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name:

1008-68 / Amega Palace / Aldine-Westfield

Report To:

Client Name:

**CES Environmental** 

P.O.# .: 1008-68

Attn:

Dan Bowman

Sample Collected By: Durim T.

Client Address:

4904 Griggs Rd

Date Collected: 11/14/08

City, State, Zip:

Houston, Texas, 77021

A&B Labs has analyzed the following samples...

Client Sample ID

Matrix

A&B Sample ID

1008-68

Liquid

08110508.01

Shautrel Carpente!

Released By: Shantali Carpenter

Title:

Project Manager

Date:

11/26/2008



This Laboratory is NELAP (T104704213-08-TX) accredited. Effective: 07/01/2008; Expires: 06/03/2009 Scope: Non-Potable Water, Drinking Water, Air, Solid, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided

Date Received: 11/20/2008 10:20

#### LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID: 08110508

Date: 11/26/2008

## General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	surr	Surrogate
мѕ	Matrix Spike	T	Time
MSD	Matrix Spike Duplicate	TNTC	Too numerous to count

MW Molecular Weight

n												

D1	Sample required dilution due to matrix effects.
S4	Surrogate not available due to dilution of sample extract for quantification.
V7	CCV recovery is below the control limit for this analyte, however the average %difference for all the analytes meets method criteria.

#### LABORATORY TEST RESULTS

Job ID: 08110508

Date 11/26/2008

Client Name: Project Name: CES Environmental

1008-68 / Amega Palace / Aldine-Westfield

Attn: Dan Bowman

Client Sample ID:

1008-68

08110508.01

Date Collected: Time Collected: 11/14/08 17:00

Other Information:

	TO: R0501180
Sample	Matrix Liquid

Test Method	Parameter/Test Description	Result	Units	DF	rec mine	Reg Limit Q	Date Time	Analys
SW-846 1010	Ignitability (Flash Point)							
	Ignitability	>150	°F	1			11/25/08 08:00	SG
SW-846 6010C	TCLP Metals							
	Antimony	0.058	mg/L	1	0.04	1	11/25/08 18:58	SS
	Arsenic	BRL	mg/L	1	0.04	1.8	11/25/08 18:58	SS
	Barium	1.08	mg/L	1	0.04	100.0	11/25/08 18:58	SS
	Beryllium	BRL	mg/L	1	0.04	0.08	11/25/08 18:58	SS
	Cadmium	BRL	mg/L	1	0.04	0.5	11/25/08 18:58	SS
	Chromium	0.114	mg/L	1	0.04	5.0	11/25/08 18:58	SS
	Lead	0.190	mg/L	1	0.04	1.5	11/25/08 18:58	SS
	Nickel	0.542	mg/L	1	0.04	70	11/25/08 18:58	SS
	Selenium	BRL	mg/L	1	0.1	1.0	11/25/08 18:58	SS
	Silver	BRL	mg/L	1	0.04	5.0	11/25/08 18:58	SS
	Vanadium	BRL	mg/L	1	0.04	30	11/25/08 18:58	SS
SW-846 7.3	Reactive Cyanide							
	Reactive Cyanide	BRL	mg/L	1	25		11/20/08 15:05	K\$
SW-846 7.3	Reactive Sulfide							
<del>-</del>	Reactive Sulfide	BRL	mg/L	1	25		11/20/08 15:05	KS
SW-846 7470A	TCLP Metals, Mercury		5.				, ,	
311 010 7 17 07	Mercury	BRL	mg/L	1	0.0005	0.2	11/26/08 10:26	BS
SW-846 8260B	TCLP VOC	_,,_	9, =	-	0,000	<b></b>	11, 29, 00 10,20	
344-0-10 02000	1,1-Dichloroethylene	BRL	mg/L	1	0.13	0.6	11/21/08 00:58	нw
	1,2-Dichloroethane	BRL	mg/L	1	0.13	0.5	11/21/08 00:58	HW
	1,4-Dichlorobenzene	BRL	mg/L	1	0.15	7.5	11/21/08 00:58	HW
	Benzene	BRL	mg/L	1	0.13	0.5	11/21/08 00:58	HW
	Carbon tetrachloride	BRL	mg/L	1	0.13	0.5	11/21/08 00:58	HW
	Chlorobenzene	BRL	mg/L	1	0.15	70	11/21/08 00:58	HW
	Chloroform	BRL			0.13	6	11/21/08 00:58	HW
	MEK	0.19	mg/L mg/L	1 1	0.13	200	11/21/08 00:58	HW
	Tetrachloroethylene	BRL		1	0.15	0.7	11/21/08 00:58	HW
			mg/L					
	Trichloroethylene Vinyl Chloride	BRL	mg/L	1	0.13	0.5	11/21/08 00:58	HW
	•	BRL 107	mg/L	1	0.1	0.2	11/21/08 00:58	HW
	p-Bromofluorobenzene(surr)	107	%	1	70-130		11/21/08 00:58	HW
	1,2-Dichloroethane-d4(surr)	92.9	%	1	70-130		11/21/08 00:58	HW
	Dibromofluoromethane(surr)	102	%	1	70-130		11/21/08 00:58	HW
	Toluene-d8(surr)	101	%	1	70-130		11/21/08 00:58	HW
W-846 8270D	TCLP Semivolatiles							
	1,4-Dichlorobenzene	BRL	mg/L	20	1	7.5 D1	11/24/08 13:27	ML
	2,4,5-Trichlorophenol	BRL	mg/L	20	1	400	11/24/08 13:27	ML

#### LABORATORY TEST RESULTS

Job ID: 08110508

Date 11/26/2008

Client Name:

**CES Environmental** 

Project Name:

1008-68 / Amega Palace / Aldine-Westfield

Attn: Dan Bowman

Client Sample ID: 1008-68

Job Sample ID: 08110508.01

Date Collected:

Sample Matrix Liquid

Time Collected:

11/14/08 17:00

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8270D	TCLP Semivolatiles								
	2,4,6-Trichlorophenol	BRL	mg/L	20	1	2		11/24/08 13:27	ML
	2,4-Dinitrotoluene	BRL	mg/L	20	1	0.13		11/24/08 13:27	ML
}	2-Methylphenol	BRL	mg/L	20	1	200		11/24/08 13:27	ML
	3- & 4-Methylphenols	BRL	mg/L	20	1	200		11/24/08 13:27	ML
	Hexachlorobenzene	BRL	mg/L	20	1	0.13		11/24/08 13:27	ML
į	Hexachlorobutadiene	BRL	mg/L	20	1	0.4		11/24/08 13:27	ML
}	Hexachloroethane	BRL	mg/L	20	1	3		11/24/08 13:27	ML
	Nitrobenzene	BRL	mg/L	20	1	2		11/24/08 13:27	ML
	Pentachlorophenol	BRL	mg/L	20	25	100		11/24/08 13:27	ML
}	Pyridine	BRL	mg/L	20	1	4		11/24/08 13:27	ML
	2-Fluorobiphenyl(surr)	N/A	%	20	30-115		S4	11/24/08 13:27	ML
	Phenol-d6(surr)	N/A	%	20	15-120		S4	11/24/08 13:27	ML
	2,4,6-Tribromophenol(surr)	90.2	%	20	10-120			11/24/08 13:27	ML
	p-Terphenyl-d14(surr)	122	%	20	18-137			11/24/08 13:27	ML
	2-Fluorophenol(surr)	N/A	%	20	15-111		S4	11/24/08 13:27	ML
	Nitrobenzene-d5(surr)	95	%	20	20-120			11/24/08 13:27	ML
SW-846 9040C	Corrosivity, pH								
1	pH	6.58	s.u.					11/25/08 15:50	SG



**Job ID:** 08110508

Date:

11/26/2008

Analysis: Reactive Sulfide

Method:

SW-846 7.3

Reporting Units:

mg/L

**QC Batch ID**: Qb08112020

Created Date: 11/20/08

Created By: Ksudha

Samples in This QC Batch : 08110508.01

Sample Preparation: PB08112112

Prep Method: SW-846 7.3

Prep Date: 11/20/08 15:00 Prep By:

Ksudha

QC Type: Method Blank						
Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Reactive Sulfide		BRL	mg/L	1	25	

QC Type: Dup	licate					
QC Sample ID:	08110484.01					
	QCSample	Sample			RPD	
Parameter	Result	Result	Units	RPD	CtrlLimit	Qual
Reactive Sulfide	BRL	BRL	mg/L		20	

QC Type: LCS and LCS	D									
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Reactive Sulfide	700	560	80	700	600	85.7	6.90	20	40-110	



**Job ID**: 08110508

Date:

11/26/2008

Analysis: Reactive Cyanide

**Sample Preparation:** PB08112116

Method:

SW-846 7.3

Reporting Units: mg/L

**QC Batch ID**: Qb08112022

Created Date: 11/20/08

Created By: Ksudha

Samples in This QC Batch: 08110508.01

Prep Method: SW-846 7.3

**Prep Date:** 11/20/08 15:00 **Prep By:** 

Ksudha

QC Type: Method Blank	<del></del>					
Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Reactive Cyanide		BRL	mg/L	1	25	

QC Type: Duplicate QC Sample ID: 08110484.01 QCSample RPD Sample RPD CtrlLimit Parameter Result Result Units Qual Reactive Cyanide BRL BRL mg/L 20

QC Type: LCS and LCS	SD .								<del>-</del>	
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Oual
raianietei	JPK Added	Result	70 Nec	_ 3pk Added	Nesuit	70 NEC	KED	CHILITIIC	CUILITIE	Quai
Reactive Cyanide	5.0	2.10	42	5.0	2.24	44.8	6.45	20	40-110	



**Job ID:** 08110508

Date:

11/26/2008

Analysis : TCLP VOC

Method:

SW-846 8260B

Reporting Units: mg/L

**QC Batch ID**: Qb08112105

**Created Date :** 11/20/08

Created By: Whuimei

Samples in This QC Batch:

08110508.01

PB08112108 Prep Method: SW-846 5030C

**Prep Date:** 11/20/08 17:10 **Prep By:** 

Whuimei

Sample Preparation: TCLP Prep:

PB08112105

**Prep Method :** SW-846 1311

**Prep Date:** 11/20/08 17:00 **Prep By:** 

Ksudha

QC Type: Method Blank			-			
Parameter	CAS #	Result	Units	D.F.	RptLimit	Qı.
1,1-Dichloroethylene	75-35-4	BRL	mg/L	1	0.13	
1,2-Dichloroethane	107-06-2	BRL	mg/L	1	0.13	
1,4-Dichlorobenzene	106-46-7	BRL	mg/L	1	0.15	
Benzene	71-43-2	BRL	mg/L	1	0.13	
Carbon tetrachloride	56-23-5	BRL	mg/L	1	0.13	
Chlorobenzene	108-90-7	BRL	mg/L	1	0.15	
Chloroform	67-66-3	BRL	mg/L	1	0.13	
MEK	78 <b>-</b> 93-3	BRL	mg/L	1	0.13	
Tetrachloroethylene	127-18-4	BRL	mg/L	1	0.16	
Trichloroethylene	79-01-6	BRL	mg/L	1	0.13	
Vinyl Chloride	75-01-4	BRL	mg/L	1	0.1	

QC Type: LCS and LCS	D									
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
1,1-Dichloroethylene	0.5	0.527	105	0.5	0.493	98.6	6.66	25	70-130	
Benzene	0.5	0.52	104	0.5	0.504	101	3.12	25	70-130	
Chlorobenzene	0.5	0.498	99.6	0.5	0.525	105	5.28	25	70-130	
Tetrachloroethylene	0.5	0.514	103	0.5	0.543	109	5,49	25	70-130	
Trichloroethylene	0.5	0.524	105	0.5	0.515	103	1.73	25	70-130	

QC Type: MS and MS QC Sample ID: 0811	D 0483.01							•			
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	_ Qual
1,1-Dichloroethylene	BRL	0.5	0.522	104						70-130	
Benzene	BRL	0.5	0.544	109						70-130	
Chlorobenzene	BRL	0.5	0.505	101						70-130	
Trichloroethylene	BRL	0.5	0.532	106	1					70-130	

Refer to the Definition page for terms.



**Job ID:** 08110508

Date:

11/26/2008

Analysis: TCLP Semivolatiles

Method:

SW-846 8270D

Reporting Units: mg/L

**QC Batch ID**: Qb08112435

Created Date: 11/24/08

Created By : Mli

Samples in This QC Batch: 08110508.01

Extraction:

PB08112403

Prep Method: SW-846 3510C

**Prep Date:** 11/21/08 15:00 **Prep By:** 

Lwang

TCLP Prep:

PB08112105

**Prep Method:** SW-846 1311

**Prep Date:** 11/20/08 17:00 **Prep By:** 

Ksudha

QC Type: Method Blank							
Parameter	CAS #	Result	Units	D.F.	RptLimit	•	Qual
1,4-Dichlorobenzene	106-46-7	BRL	mg/L	1	0.05		
2,4,5-Trichlorophenol	95-95-4	BRL	mg/L	1	0.05		
2,4,6-Trichlorophenol	88-06-2	BRL	mg/L	1	0.05		
2,4-Dinitrotoluene	121-14-2	BRL	mg/L	1	0.05		
2-Methylphenol	95-48-7	BRL	mg/L	1	0.05		
3- & 4-Methylphenois	108-39-4 & 106-44-5	BRL	mg/L	1	0.05		
Hexachlorobenzene	118-74-1	BRL	mg/L	1	0.05		
Hexachlorobutadiene	87-68-3	BRL	mg/L	1	0.05		
Hexachloroethane	67-72-1	BRL	mg/L	1	0.05		
Nitrobenzene	98-95-3	BRL	mg/L	1	0.05		
Pentachlorophenol	87-86-5	BRL	mg/L	1	1.25		
Pyridine	110-861	BRL	mg/L	1	0.05		

QC Type: LCS and LC	SD									,
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
1,4-Dichlorobenzene	0.25	0.192	76.8	0.25	0.192	76.8	0	35	24-134	
2,4,5-Trichlorophenol	0.25	0.232	92.8	0.25	0.231	92.4	0.43	35	6-115	
2,4,6-Trichlorophenol	0.25	0.185	74	0.25	0.183	73.2	1.08	35	40-138	
2,4-Dinitrotoluene	0.25	0.21	84	0.25	0.206	82.4	1.92	35	32-114	
2-Methylphenol	0.25	0.203	81.2	0.25	0.199	79.6	1.99	35	6-132	
3- & 4-Methylphenols	0.5	0.378	75.6	0.5	0.369	73.8	2.40	35	29-132	
Hexachlorobenzene	0.25	0.223	89.2	0.25	0.231	92.4	3.52	35	44-142	1
Hexachlorobutadiene	0.25	0.184	73.6	0.25	0.185	74	0.54	35	20-124	1
Hexachloroethane	0.25	0.182	72.8	0.25	0.181	72.4	0.55	35	14-136	
Nitrobenzene	0.25	0.202	80.8	0.25	0.198	79.2	2	35	38-146	
Pentachlorophenol	0.25	0.145	58	0.25	0.134	53.6	7.88	35	25-125	
Pyridine	0.25	0.12	48	0.25	0.126	50.4	4.88	35	6-112	

QC Type: MS and MSD QC Sample ID: 08110504.01													
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual		
1,4-Dichlorobenzene	BRL	0.25	0.183	73.2						24-134			
2,4,5-Trichlorophenol	BRL	0.25	0.211	84.4						6-115			
2,4,6-Trichlorophenol	BRL	0.25	0.163	65.2						40-138			

Refer to the Definition page for terms.



**Job ID:** 08110508

Date:

11/26/2008

Analysis : TCLP Semivolatiles

Method:

SW-846 8270D

Reporting Units:

mg/L

**QC Batch ID**: Qb08112435

Created Date: 11/24/08

Created By: Mi

Samples in This QC Batch: 08110508.01

QC Type: MS and MSD			<del></del>				· · · · ·	:		/+.X=	
QC Sample ID: 081105	504.01										
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
2,4-Dinitrotoluene	BRL	0.25	0.173	69.2					}	32-114	
2-Methylphenol	BRL	0.25	0.17	68						6-132	
3- & 4-Methylphenols	BRL	0.5	0.315	63				· ·		29-132	
Hexachlorobenzene	BRL	0.25	0.206	82.4						44-142	]
Hexachlorobutadiene	BRL	0.25	0.169	67.6						20-124	
Hexachloroethane	BRL	0.25	0.174	69.6						14-136	
Nitrobenzene	BRL	0.25	0.173	69.2						38-146	İ
Pentachlorophenol	BRL	0.25	0.17	68						25-125	
Pyridine	BRL	0.25	0.108	43.2			<u> </u>			6-112	<u> </u>



**Job ID:** 08110508

Date:

11/26/2008

Qual

Analysis: Ignitability (Flash Point)

Method:

SW-846 1010

Reporting Units: ٥F

**QC Batch ID**: Qb08112522

Created Date: 11/25/08

Samples in This QC Batch:

08110508.01

Created By: Sgarcia

QC Type: Duplicate

QC Sample ID: 08110508.01

RPD

Parameter Ignitability QCSample Result Sample Result >150 >150

RPD Units ٩F

CtrlLimit 20

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Ignitability	83	86	104	83	86	104	0	20	75-125	



**Job ID:** 08110508

Date:

11/26/2008

Analysis : Corrosivity, pH

Method:

SW-846 9040C

Reporting Units: s.u.

**QC Batch ID**: Qb08112526

Created Date: 11/25/08

Samples in This QC Batch: 08110508.01

Created By: Sgarcia

QC Type:	Dup	licate
000	TD.	00440500.04

QC Sample ID: 08110508.01

QCSample Sample RPD Result Result Units RPD CtrlLimit

Parameter Qual рΗ 6.60 6.58 0.30 5 s.u.

QC Type:	LCS and LCSD	)	-		-					
		LCS	LCS	LCSD	LCSD			RPD		
Parameter		Assigned	Result	Assigned	Result	R	.PD	CtrlLimit	Tolerance	Qual
nН		4.00	4.02					I I	2 OF 4 OF	



Job ID: 08110508

Date:

11/26/2008

Analysis: TCLP Metals

Method:

SW-846 6010C R

Reporting Units:

mg/L

**QC Batch ID**: Qb08112537

**Created Date:** 11/25/08

Created By: Ssrinivasan

Samples in This QC Batch:

08110508.01

PB08112521

Prep Method: SW-846 3010A

**Prep Date:** 11/25/08 10:00 **Prep By:** 

Ssrinivasan

Digestion: TCLP Prep:

PB08112105

Prep Method: SW-846 1311

**Prep Date:** 11/20/08 17:00 **Prep By:** 

Ksudha

QC Type: Method Blank							-
Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Antimony	7440-36-0	BRL	mg/L	1	0.1	,	
Arsenic	7440-38-2	BRL	mg/L	1	0.04		
Barium	7440-39-3	BRL	mg/L	1	0.04		
Beryllium	7440-41-7	BRL	mg/L	1	0.04		
Cadmium	7440-43-9	BRL	mg/L	1	0.04		
Chromium	7440-47-3	BRL	mg/L	1	0.04		
Lead	7439-92-1	BRL	mg/L	1	0.04		
Nickel	7440-02-0	BRL	mg/L	1	0.04		
Selenium	7782 <del>-4</del> 9-2	BRL	mg/L	1	0.1		
Silver	7440-22-4	BRL	mg/L	1	0.04		
Vanadium	7440-62-2	BRL	mg/L	1	0.04		

QC Type: LCS and LCS	D									
	LCS	LCS	LCS	LCSD	LCSD	LCSD		RPD	%Recovery	
Parameter	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qual
Antimony	2.0	1.96	98	2.0	1.95	97.5	0.51	20	80-120	
Arsenic	2.0	1.95	97.5	2.0	1.95	97.5	0	20	80-120	
Barium	2.0	1.79	89.5	2.0	1.79	89.5	0	20	80-120	
Beryllium	2.0	1.90	95	2.0	1.89	94.5	0.52	20	80-120	
Cadmium	2.0	1.84	92	2.0	1.85	92.5	0.54	20	80-120	
Chromium	2.0	1.82	91	2.0	1.83	91.5	0.54	20	80-120	
Lead	2.0	1.85	92.5	2.0	1.85	92.5	0	20	80-120	
Nickel	2.0	1.82	91	2.0	1.83	91.5	0.54	20	80-120	
Selenium	2.0	2.01	101	2.0	2.03	102	0.99	20	80-120	
Silver	2.0	1.94	97	2.0	1.95	97.5	0.51	20	80-120	
Vanadium	2.0	1.86	93	2.0	1.87	93.5	0.53	20	80-120	

QC Type: MS a	and MSD										
QC Sample ID:	08110557.01										
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Antimony	0.040	2.0	1.90	93						70-130	
Arsenic	BRL	2.0	1.87	93.5						45-138	
Barium	0.317	2.0	2.05	86.7						39-135	
Beryllium	BRL	2.0	1.91	95.5						70-130	
Cadmium	BRL	2.0	1.82	90.9						56-125	

Refer to the Definition page for terms.



**Job ID:** 08110508

Date:

11/26/2008

Analysis : TCLP Metals

Method:

SW-846 6010C

Reporting Units: mg/L

**QC Batch ID**: Qb08112537

Created Date: 11/25/08

Created By: Ssrinivasan

Samples in This QC Batch: 08110508.01

QC Type: MS and MSD QC Sample ID: 08110557.01												
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual	
Chromium	BRL	2.0	1.82	90.3						52-125		
Lead	BRL	2.0	1.83	90.8				İ		55-125		
Nickel	BRL	2.0	1.79	89.5						70-130	ľ	
Selenium	BRL	2.0	2.03	101	<u> </u>					70-130		
Silver	BRL	2.0	1.96	97.5						26-148		
Vanadium	0.026	2.0	1.89	93.2						70-125		



**Job ID:** 08110508

Date:

11/26/2008

Analysis : TCLP Metals, Mercury

Method:

SW-846 7470A

Reporting Units:

**QC Batch ID**: Qb08112616

Created Date: 11/26/08

Created By: Tkhuc

mg/L

Samples in This QC Batch: 08110508.01

Prep Method: SW-846 7470A

**Prep Date:** 11/25/08 17:00 **Prep By:** 

Tkhuc

Digestion: TCLP Prep: PB08112611 PB08112105

**Prep Method:** SW-846 1311

**Prep Date:** 11/20/08 17:00 **Prep By:** 

Ksudha

QC Type:	Method Blank			

Parameter	CAS #	Result	Units	D.F.	RptLimit	-	Qual
Mercury	7439-97-6	BRL	mg/L	1	0.0005		

QC Type: LCS and LCSD

' ''										l	
	LCS	LCS	LCS	LCSD	LCSD	LCSD		RPD	%Recovery		
Parameter	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qual	
Mercury	0.005	0.00474	94.8	0.005	0.00453	90.6	4.53	35	71-143		

QC Type: MS and MSD

QC Sample ID:	08110508.01										
	Sample	MS	MS	MS	MSD	MSD	MSD		RPD	%Rec	
Parameter	Result	Spk Added	Result	% Rec	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qual
Mercury	BRI	0.005	0.00672	134						61-175	

The Chain of Custody is a Legal Document

INVOICE TO:

Page _

3. PO#

Chain of Custody

REPORT TO:

A & B Labs

10100 East Fwy (I-10) Ste. 100

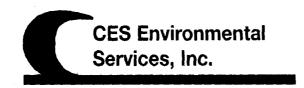
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# **Sample Condition Checklist**

Date: 11/26/08

	•	8	100	ite Received	: 11,	/20/2008		Time	Received :	10:20	AM	
Client Name :	CES Envi	ronmen	ital			7.		1				
Temperature :	22.3°C		Sa	mple pH :	N/	A						
			The Tree					Emple E				
				CI	neck P	oints					Yes	No
1. Cooler se	al present a	nd signe	d.		Market State (14), St.						N/A	
2. Sample(s	) in a cooler	•		·····								Х
3. If yes, ice	in cooler.						<u> </u>		<u> </u>			Х
4. Sample(s	4. Sample(s) received with chain-of-custody.											
5. C-O-C sig	ned and dat	ed.	***						,		X	
6. Sample(s) received with signed sample custody seal.										N/A		
7. Sample c	ontainers ar	rived int	act. (If no	comment).	·						Х	
Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Oth	er
8.  :	V											
9. Sample(s) were received in appropriate container(s).										Х		
10. Sample(s	) were recei	ved with	proper pr	eservative								
11. All sample	es were logg	jed or lal	beled.								Х	
12. Sample I	D labels mat	ch C-O-C	ID's								X	
13. Bottle co	unt on C-O-C	matche	s bottles f	ound.							Х	
14. Sample v	olume is suf	ficient fo	r analyses	requested.							Х	L
15. Samples	were receive	ed within	the hold	time.							Х	
16. VOA vials	completely	filled.									N/A	
17. Sample a	ccepted.										Х	
Comments : In				<del>.</del>								
The sample was re sample matrix oil.	eceived past t	he metho	d hold time	for pH analys	sis and T	CLP semivolatil	e extraction	, however,	the hold time	es do not	apply to yo	our
•												
											•	***************************************
	4											
Received by :	Revathi	<u></u>				Check in	by/date :	Revathi	/ 11/20/2008			
										ww.abla		



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# Waste Pre-Acceptance/Approval Letter

ony tho

pH: na

Date 7/30/2007

Dear Zac or Dave

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

**CES Profile #** 2266

Generator: TBC Brianadd 235 Fariss St. Address:

Houston, TX 77054

Waste Information

Name of Waste: Oil cuttings TCEQ Waste Code #: CESQ4891

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Cuttings from testing drilling equipment

Color: brown **Odor:** slight hydrocarbon

**Physical State:** 

Incompatibilities: na

Safety Related Data/Special Handling:

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



# CES Environmental Services, Inc.

4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 39048 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Genera	ator Information			
Company:	TBCB	ripodd		
Address:	_235 Far	nis		
City, State, Zip:	Harston	PACITI XT		
Contact:	RICKUE	rmack)	Title:	
Phone No:	713-1004-4	711	Fax No:	713-664-6032
24/hr Phone:				
U.S. EPA I.D. No:	TXCECC	<u></u>	<del></del>	N A
State I.D.	TECOL	<del> </del>	SIC Code:	NA.
		······································		
SECTION 2: Billing	Information - 5	Same as Above		
Company:		ices		
Address:	man la	rea Farint		
City, State, Zip:	10010 0000	1X31131	(^	
Contact:	THE STATE OF THE	Title:	<del></del>	
Phone No: Q	102		- C 21 - C	26-1220
r none 140.	JO 402 JU	You Fax N	o: 4700-11	00-10010
A				
SECTION 3: Genera	al Description of the	e Waste		
N	10.111.00	-		
Name of Waste: 🔼	TOOHIUS	5 0	C - 100	1 1-111 00 10
Detailed Description	of Process Generat	ing Waster Latting	7 + WW LES	stingdrilling equip
		`	J	3 1 1
Physical State:	🔲 Liquid	Sludge	Powder	
	<b>₩</b> Solid	Filter Cake	Combinatio	on .
0		•		
Color: Drown		odor: Slight Hydro	carbon	
<del></del>				•
Specific Gravity (wat	ter=1). 1~ 1.5	Density: 8-9 lbs/	(72)	
-product Courts, (was		Density. V 103/	gat	
Larava	VZO com ala mana	[ ] Be 14 1		
Layers:	Single-phase	Multi-pha	şe	
	\ <del></del>			
Container Type:	Drum Drum	, Tote	Truck	Other (explain)
Container Size:	, <u>55</u> 00		,	
	1			
<b>-</b>	<b>—</b>		-	<b>-</b> /
Frequency:	☐ Weekly	Monthly	Quarterly	Yearly
Number of Units (cor	itainers): 10	Other:		
Texas State Waste Co	ode No:	marcu 09	4	
	上 丿		<u></u>	<del> </del>
Proper U.S. DOT Shi	pping Name:	N19 D		
Class:	UN/N.	A	PG:	RQ:
	2.414		- U	
				•
Flash Point	pH.	Reactive Sulfides	Reactive C	yanides Solids
7140°F	NIA	mg/l	mg/	
Oil&Grease	TOC	Zinc	Copper	Nickel
mo/l	- 00 may		COPPE,	ma/l

COMPLOYIE TERRITOR	Canventua (00	Linus
The waste consists of the following materials	Ranges are acceptable	or %
Dict	80-90	70
ÖN	1-10	170
	·	
		1
SECTION 5: Safety Related Data		
If the handling of this waste requires the use of special protective equip	oment, please explain.	
NA	•	
FOTION 6. Attached Supporting Name 14		
SECTION 6: Attached Supporting Documents		
ist all documents, notes, data, and/or analysis attached to this form as	s part of the waste approval packs	ge.
Haralytical		
SECTION 7: Incompatibilities		
Please list all incompatibilities (if any):	•	
NA		
	•	
SECTION 8: Generator's Knowledge Documentation		
Laboratory analysis of the hazardous waste characteristics, listed below	w, WAS NOT PERFORMED base	ed upon tl
generator knowledge:		•
TCLP Metals:		
CCLP Volatiles:		
ICLP Semi-Volatiles:		
Reactivity:	•	
Corrosivity:		
gnitability:		
Ignitability:		
SECTION 9: Generator's Certification	d/or V analytical data. I hereby ce	ertify that
SECTION 9: Generator's Certification  The information contained herein is based on   generator knowledge and	d/or analytical data. I hereby co	ertify that
SECTION 9: Generator's Certification	edge and ability to determine that	no deliber
SECTION 9: Generator's Certification  The information contained herein is based on   generator knowledge and accurate to the best of my knowledge and accurate to the best of my knowledge.	edge and ability to determine that d hazards have been disclosed. I c	no deliber ertify that
SECTION 9: Generator's Certification  The information contained herein is based on  generator knowledge and attached description is complete and accurate to the best of my knowledge omissions of composition properties exist and that all known or suspected are representative of all materials described by this document.	edge and ability to determine that d hazards have been disclosed. I c	no deliber ertify that
SECTION 9: Generator's Certification  The information contained herein is based on  generator knowledge and attached description is complete and accurate to the best of my knowledge omissions of composition properties exist and that all known or suspected	edge and ability to determine that	no deliber ertify that
SECTION 9: Generator's Certification  The information contained herein is based on  generator knowledge and attached description is complete and accurate to the best of my knowledge omissions of composition properties exist and that all known or suspected are representative of all materials described by this document.	edge and ability to determine that d hazards have been disclosed. I c	no deliber ertify that

Rejected

Approved

Additional Information: 190/de

## SECTION 10: Waste Receipt Classification Under 40 CFR 437 Is this material a wastewater or wastewater sludge? YES If 'Yes', complete this section. PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE. Metals Subcategory: Subpart A Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment Oils Subcategory: Subpart B Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes Organics Subcategory: Subpart C Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation

Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

(1)	If the	waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.	
(2)		waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in values listed below, the waste should be classified in the metals subcategory.	excess
	Chron Coppe	nium: 0.2 mg/L nium: 8.9 mg/L er: 4.9 mg/L el: 37.5 mg/L	
(3)		waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, coppl above any of the values listed above, the waste should be classified in the organics subcategory.	per, or
		Metals Subcategory	
		Oils Subcategory	
		Organics Subcategory	

## SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

attn: Dan 32 pgs



1544 Sawdust Road, Suite 505 The Woodlands, TX 77380 (281)292-5277 FAX: (281)292-2481

June 12, 2007

ZAC MCKAUGHAN CKG SERVICES 10707 HONEA EGYPT RD. MONTGOMERY, TX 77316

#### REFERENCE:

#### Dear ZAC MCKAUGHAN:

Enclosed is the analytical Report for the project referenced above. The following sample(s) are included in the report.

UNKNOWN OIL CUTTINGS

All the holding times were met for the tests performed on these samples. Enclosed, please find the Quality Control Summary. All quality control results for the QC batch that are applicable to the sample(s) are acceptable except as noted in the QC batch reports.

If the report is acceptable, please approve the enclosed invoice and forward it for payment.

Thank you for selecting A4 SCIENTIFIC for your laboratory needs on this project. If you have any questions concerning these results, please feel free to contact me at any time.

We look forward to working with you on future projects.

Sincerely,

Pradeep Divvela

Quality Assurance Manager



1544 Sawdust Road, Suite 505 The Woodlands, TX 77360 (281) 292-5277

(Fax): (281) 292-2481

## ANALYTICAL REPORT

CLIENT PROJECT.... TBC CLIENT PROJECT NUMBER...: 0005

#### Prepared For:

CKG SERVICES 10707 HONEA EGYPT RD. MONTGOMERY, TX 77316

ATTENTION: ZAC MCKAUGHAN

Date: 06/12/2007

Signature

LAB EPISODE NUMBER: 8181

Date Received....: 04/05/2007

Lab Project ID....: Q032106A

Pradeep Divvela

Quality Assurance Manager

06/12/02

(281) 292-5277

pradeep@a4scientific.com

PAGE: 00001

# Ad Scientific

# **Chain of Custody Record**

1344 Sawdust Road, Suite 505 • The Woodlands, TX 77880 (281) 292-5277 • FAX: (281) 292-2481 • www.aiscientific.com

CoC No		
	8181	
Lab Project No	9 0	

Client Name / Address:	Project Manager Zac	Mckan	cha	Send R	esportio: CKG	
CKG Scr Vices Project Name  Project Name	Phone Number: 251-5	41-48	29			
Project Name  TBC Wisher  Samplers (Signature)  Project Name  Project Name		3				For Lab Use Only
Client Sample ID Date Time Station Location	Number of Containers		33/		Client Remarks	Lab Sample 10
Unkwin 4/2 7:54	1 361	7/1/				8181-00)
Oil Cathings 1/8 9:40	1 50	11//	1			7 - 205
			<del>-</del>			
			_{			
				7	5-07	
Religiopedished by (Signature)  Date / Time Received by (Signature)  Refining Cished by (Signature)  Date / Time Received by (Signature)		Date/Time	Lato	Remarks:		
Received for La	ocaratory by (Signature)	Oate/Time	20	1	egular TAT	
Method of Shipment:  Distribution: Original accompanies shipment; Copy to coordinator and field this		7 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1				



Ignitability

### 1544 Sawdust Road, Suite 505 The Woodlands, TX 77380

DEGREES B

Page 1 of 1

#### LABORATORY REPORT

**IGNITABILITY** CLIENT SAMPLE ID : UNKNOWN CLIENT NAME : CKG SERVICES LAB SAMPLE ID : 8181.001 PROJECT NAME : TBC PROJECT NUMBER : 0005 METHOD REFERENCE : SW846-1010 DATE SAMPLED : 04/03/2007 DATE RECEIVED : 04/05/2007 SAMPLE MATRIX SOIL PRINTED ON : 06/12/2007 10:48 ANALYST : BT DATE ANALYZED : 04/09/07

ROOM TEMP,	: 72 DEGREES F
<u> </u>	
	TEARANETER TO THE TEAR OF THE CONTRACT OF THE TEAR OF THE TEAR OF THE TEAR OF THE TEAR OF THE TEAR OF THE TEAR

DEGREES I

QUALITY CONTROL DATA

PAGE: 00003



Page 1 of 1

### LABORATORY REPORT

CORROSIVITY pH

CLIENT NAME PROJECT NAME : CKG SERVICES

PROJECT NUMBER : 0005

DATE SAMPLED

: 04/03/2007

eample matrix

Corrosivity PH

: TBC

PARAMETER

: SOIL

CLIENT SAMPLE ID : UNKNOWN

LAB SAMPLE ID : 8181.001

METHOD REFERENCE : SW846-9045C

DATE RECEIVED : 04/05/2007

PRINTED ON

: 06/12/2007

10:48

ANALYST : BT DATE ANALYZED

: 04/09/07

1.00

COANTLYATION LIMIT: UNITS

PESULTS 9.70 UNITS

QUALITY CONTROL DATA

PAGE: DODOU



Page 1 of 1

### LABORATORY REPORT

REACTIVE CYANIDE (COLOROMETRIC)

CLIENT NAME

: CNG SERVICES

PROJECT NAME

: TBC

FROJECT NUMBER : .0005 DATE SAMPLED

SAMPLE MATRIX

: 04/03/2007

: BOIL

CLIENT SAMPLE ID : UNKNOWN

LAB SAMPLE ID : 8181.001

METHOD REFERENCE : SW846-SEC.7.3.3

DATE RECEIVED : 04/05/2007

: 06/12/2007

10:48

ANALYST

: BT

DATE ANALYZED

DETAILED ON

: 04/12/07

DATE PREPPED : 04/11/07 NaOH VOLUME

: 50 ML

DILUTION SAMPLE WEIGHT : 1

; 10 G

PARAMETER : Cyanide, reactive

OUANTETATION CIMIT RESULTS COALIELES 0.050

QUALITY CONTROL DATA



Page 1 of 1

### LABORATORY REPORT

REACTIVE SULFIDE (GOLOROMETRIC) CLIENT NAME : CKG SERVIČES CLIENT SAMPLE ID : UNKNOWN PROJECT NAME : TBC LAB SAMPLE ID : 8181.001 PROJECT NUMBER : 0005 METHOD REFERENCE : SW846-SEC.7.3.4 : 04/03/2007 DATE RECEIVED : 04/05/2007 DATE SAMPLED FRINTED ON : 06/12/2007 10:48 SAMPLE MATRIX : SOIL ANALYST : BT DATE ANALYZED : 04/12/07 DATE PREPPED : 04/11/07 DILUTION : 1 MAOH VOLUME : 50 ML SAMPLE WEIGHT : 10 G

	RAMETER	CULTITUTION	Timit	FESU	æs i inde	QUALIFIER	
Sulfide, reactive		1.0	MG/RG	nd	MG/KG		

QUALITY CONTROL DATA



Page 1 of 1

### LABORATORY REPORT

CLIENT NAME : CKG SERVICES CLIENT SAMPLE ID : UNKNOWN
PROJECT NUMBER : TBC LAB SAMPLE ID : 8181.001
PROJECT NUMBER : 0005 METHOD REFERENCE : TWRCC-1005
DATE SAMPLED : 04/03/2007 DATE RECRIVED : 04/05/2007

SAMPLE MATRIX : SOIL FRINTED ON : 06/12/2007 10:48

% MOISTURE ANALYST : 52 DATE ANALYZED : 04/10/07 : 04/10/07 DATE PREFPED DILUTION : 1 EXTRACT VOLUME : 10 ML INSTRUMENT FILE : 813694 : B-5890 INSTRUMENT ID SAMPLE SIZE : 10 6 : 16:48 TIME ANALYZED

PARAMETER	OUANTITALION	LIMIT	RESUL	asi yang	OUALIFIER:
TPN-(>nCl2-nC28)	20.0	MG/KG	ND	MG/KG	
TPH-(>nC28-nC35)	20.0	MC\KC	ND	MC\KC	
TPH-(nC6~nC12)	20.0	MG/KG	ND	MG/KG	

QUALITY CO	NTROL DATA		<b>X</b> (3)25004733
GRUPOGATE COMPOUND	SPIKE ADDED	OC RECOVERY LIMITS	RECOVERY
1-Chlorooctane	50 MG/KG	70 - 130	123
o-Terphenyl	SO MG/KG	70 - 130	97



Page 1 of 1

### LABORATORY REPORT

	TOTAL	PETROLEUM HYDROCARBONS
CLIENT NAME	; CKG SERVICES	CLIENT SAMPLE ID : OIL CUTTINGS
project name	: TBC	LAB SAMPLE ID : 8181.002
PROJECT NUMBER	: 0005	METHOD REFERENCE : TNRCC-1005
date sampled	: 04/03/2007	DATE RECEIVED : 04/05/2007
Sample Matrix	: sort	PRINTED ON : 06/12/2007 10:48

* MOISTURE	*	ANALYST	; JL
DATE ANALYZED	: 04/10/07	DATE PREPRED	: 04/20/07
DILUTION	: 1	extract volume	: 10 100
INSTRUMENT FILE	: B13697	INSTRUMENT ID	: B-5690
SAMPLE SIZE	: 10 6	TIME ANALYZED	: 19:07

PARAMETER	I OURNITITATION	TIMIT	J RESUL	STS VIII	QUALIFIER-
TPH-(>nC12-nC28)	20.0	MG/KG	129000	MG/KG	
TPH- (>nCZB-nC35)	20.0	MG/KG	ND	MG/KG	
TFH- (nC6-nC12)	20.0	MG/KG	24800	MG/KG	

QUALITY CON					
SURROGATE COMPOUND	PIKE ADDE	Que que de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión d	QC RECOVER	Y LIN	III & SECONERY
1-Chlorooctane	50	MG/KG	70 -	130	183
o-Terphenyl	50	MC\KG	70 -	130	270



Page 1 of 1

### LABORATORY REPORT

TOTAL PETROLEUM HYDROCARBONS CLIENT SAMPLE ID : OIL COTTINGSDL1 : CKG SERVICES CLIENT NAME LAB SAMPLE ID : 8181.002DL1 PROJECT NAME : TBC METHOD REFERENCE : TNRCC-1005 PROJECT NUMBER : 0005 DATE RECEIVED : 04/05/2007 DATE SAMPLED : 04/03/2007 SAMPLE MATRIX : SOIL : 06/12/2007 10:48 PRINTED ON

: JL % MOISTURE ANALYST DATE ANALYSED : 04/12/07 DATE PREPPED : 04/10/07 DILUTION :10 ML : 100 EXTRACT VOLUME INSTRUMENT FILE : B13699 INSTRUMENT ID : B-5690 SAMPLE SIZE : 10 G TIME ANALYZED : 16:48

PARAMETER	noltantuauq	LIMIT	(FRESU	.P\$,	QUALIFIER
TPH-(>nCl2-nC28)	2000	MG/KG	120000	MG/KG	
TPH-(>nC20-nC35)	2000	MG/KG	ND .	MG/KG	
TPH- (nc6-nc12)	2000	MG/KG	27700	MG/KG	

QUALITY CON				
SURROGATE COMPOUND	TKE ADDE	D. (25 5 6 6 6 6	OC RECOVERY CIMITS	RECOVERY
1-Chlorooctane	50	MG/KG	70 - 130	0
o-Terphenyl	50	MG/KG	70 - 130	0



Page 1 of 1

### LABORATORY REPORT

TCLP YOLATILES BY GOMS CLIENT NAME : CKG SERVICES CLIENT SAMPLE ID : UNKNOWN PROJECT NAME : TBC LAB SAMPLE ID : 9181.001 PROJECT NUMBER : 0005 METHOD REFERENCE : SW846-6260B DATE RECEIVED : 04/05/2007 DATE SAMPLED : 04/03/2007 : 06/12/2007 SAMPLE MATRIX : SOIL PRINTED ON 10:48

ANALYST : SP DATE ANALYZED : 04/10/2007
DILUTION : 25 INSTRUMENT FILE : C9743.D
INSTRUMENT LD : C-5973 PRE-PREP ANALYST : 3P
PURGE VOLUME : 20 ML TCLP PREP. DATE : 04/10/07
TIME ANALYZED : 15:21

1,1-Dichloroethene	25	UG/L	ND	ne/r	
1,2-Dichloroethane	25	UG/L	QM	UG/L	
2-Butanone	120	UG/L	ND	UG/L	
Benzene	25	UG/L	ND	UG/L	***************************************
Carbon tetrachloride	. 25	UG/L	ND	UG/L	
Chlorobenzene	25	0G/L	QM	UG/L	
Chloroform	25	ng/r	ND	ne/r	
Tetrachloroethene	25	UG/L	ПD	UG/L	
Trichloroethene	25	UG/L	ДM	UG/L	~
Vinyl chloride	25	UG/L	ф	UG/L	·——•

QUALITY GON	TROLDAT	Astron		
SUPPORTE COMPOUND STATE STATE OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE SUPPORT OF THE	TKE ADDE	D 1 3 5 5	QC RECOVERY LIMITS	RECOVERY
Dibromofluoromethane	250	UG/L	75 - 131	98
Toluene-d0	250	UG/L	68 - 125	101
1,2-Dichloroethane-d4	250	ng/r	62 - 139	82
4-Bromofluorobensene	250	0G/L	75 - 125	89



Page 1 of 1

### LABORATORY REPORT

TCLP-VOLATILES BY GC/MS : CKG SERVICES CLIENT SAMPLE ID : OIL CUTTINGS CLIENT NAME PROJECT NAME : TBC LAB SAMPLE ID : 8181.002 PROJECT NUMBER : 0005 METHOD REFERENCE : SW846-8260B DATE SAMPLED : 04/03/2007 DATE RECEIVED : 04/05/2007 2 06/12/2007 Sample Hatrix : SOIL PRINTED ON 10:48

ANALYST : SP DATE ANALYZED : 04/10/2007

DILUTION : 25 INSTRUMENT FILE : C9744.D

INSTRUMENT ID : C-5973 PRE-PREP ANALYST : SP

PURGE VOLUME : 20 RL TCLP PREP. DATE : 04/10/07

TIME ANALYZED : 15:48

PARAMETER	DIFATITMADO	M TIMIT.	* RESU	lts	QUALIFIER
1,1-Dichloroethene	25	UG/L	ND	VG/L	···
1,2-Dichloroethane	25	UG/L	ND	UG/L	
2-Butanone	120	UG/L	DI	ve/L	**************************************
Benzene	25	UG/L	ND	DG/L	
Carbon tetrachloride	25	UG/L	ND	UG/L	
Chlorobenzene	25	UG/L	ND	A&\r	,
Chloroform	25	UG/L	ND	UG/L	
Tetrachloroethene	25	0G/L	ND	UG/L	
Trichloroethene	. 25	UG/L	ND	UG/L	
Vinyl chloride	25	ng/r	ND	UG/L	

QUALITY COL	TROL DAT	A		
DEURROGATE COMPOUND TO THE TENT OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF THE PROCESS OF T	FIKE AUDE	Diversión	OC PECOVERY LIMITS	PRECOVERY
Dibromofluoromethane	250	OG/L	75 - 131	94
Toluene-d8	250	UG/L	68 - 125	102
1,2-Dichloroethane-d4	250	UG/L	62 - 139	80
4-Bromofluorobenzene	250	UG/L	75 - 125	91



Page 1 of 1

### LABORATORY REPORT

TCLP-SEMIVOLATILE ORGANICS BY GCIMS

CLIENT NAME

: CKG SERVICES

CLIENT SAMPLE ID : UNKNOWN

PROJECT NAME

: TBC

LAB SAMPLE ID : 8181.001

PROJECT NUMBER : 0005

METHOD REFERENCE : SW846-9270C

DATE RECEIVED : 04/05/2007

DATE SAMPLED SAMPLE MATRIX

: 04/03/2007 : SOIL

PRINTED ON

: 05/12/2007

10:48

ANALYST : JL

DATE ANALYZED

: 04/10/2007

DATE EXTRACTED : 04/10/07

DILUTION

: 1

EXTRACT VOLUME : 1 mL INSTRUMENT ID

INSTRUMENT FILE : D6368.0

PRE-FREP ANALYST : CL

: SAMPLE VOLUME :200 mL

TCLP PREP. DATE: 04/09/07

2mlt	ANALYZEO	;	15:	18

papameter 1,4-Dichloropenzene		AND AND ASSESSED.	RES ND	ng/r	QUALIFIER
	50	UG/L			
2,4,5-Trichlorophenol	120	ug/L	ЙD	በፎ/ፓ	L
2,4,6-Trichlorophenol	50	UG/L	ND	UG/L	
2,4-Dinitrotoluene	50	UG/L	ND	UG/L	
2-Methylphenol	50	UG/I,	ND	UG/L	
3+4-Methylphenol	50	UG/L	ND	UG/L	
Hexachlorobenzen <del>e</del>	50	UG/L	ИD	UG/L	<u> </u>
Hexachlorobutadiene	50	UG/L	ND	VG/L	
Hexachloroethane	50	UG/L	ND	UG/L	
Nitrobenzene	50	UG/L	ND	UG/L	_
Pentachlorophenol	120	UG/L	ND	UG/L	
Pyridine	50	UG/L	DM	UG/L	

QUALITY C	ONTROL DATA		
SURBOGATAL COMPOUND	SPIKE ADDED	OC RECOVERY LIMITS	PECOVERY
2,4,6-Tzibromophenol	375 UG/L	10 ~ 123	72
2-Fluorobiphenyl	250 UG/L	43 - 116	56
2-Fluorophenol	375 UG/&	21 - 100	. 17
Nitrobenzene-dS	290 UG/L	35 - 114	42 .
Phenol-d5	375 UG/L	10 - 94	14
Texphenyl-d14	250 UG/L	33 - 141	52



Fage 1 of 1

### LABORATORY REPORT

TCLP-SEMIYOLATILE ORGANICS BY GC/MS

CLIENT NAME : CKG SERVICES PROJECT NAME

: TBC

PROJECT NUMBER : 0005

DATE SAMPLED

SAMPLE MATRIX

: 04/03/2007

! SOIL

CLIENT SAMPLE ID : OIL CUTTINGS

LAB SAMPLE ID : 8181.002

METHOD REFERENCE : SW846~8270C

DATE RECEIVED : 04/05/2007

PRINTED ON

: 06/12/2007

: 04/10/2007

10:48

analyst

DATE EXTRACTED : 04/10/07

EXTRACT VOLUME z 1 mł

INSTRUMENT ID

SAMPLE VOLUME TIME ANALYZED : 17:42

: 200 mL

DATE ANALYZED

DILUTION : 1

INSTRUMENT FILE -: D5372.D

PRE-PREP ANALYST : CL

TCLP PREP. DATE: 04/09/07

PARAMETER 4. 19	QUANTITATIC	n linit	RES	jets - Joua	LIPTER
1,4~Dichlorobensene	50	UG/L	ND	UG/L	الانتخاذ المال
2,4,5-Trichlorophenol	120	OG/L	ND	UG/L	
2,4,6-Trichlorophenol	50	UG/L	ND	UG/L	
2,4-Dinitrocoluene	50	UG/L	NU	UG/L	
2-Methylphenol	50	UG/L	ND	UG/L	
3+4-Methylphenol	50	OG/L	ND	UG/L	
Hexachlorobenzene	50	OG/L	ND	UG/L	
Hexachlorobutadiene	50	UG/L	ND	UG/L	
Hexachloroethane	50	DG\T	ND	NG/F	***************************************
Mitrobenzene	50	UG/L	ND	UG/L	
Pentachlorophenol	120	ng/r	ND	UG/L	
Pyridine	30	ng/r	ŃD	UG/L	

	QUALITY CONTROL DAT	A		
SURROGATE COMPOUND	SPIKE ADDE	D	OC. RECOVERY LINITS	SEECOVERY
2,4,6-Tribromophenol	375	vg/L	10 - 123	91
2-Fluorobiphenyl	250	UG/L	43 ~ 116	101
2-Fluorophenol	375	UG/L	21 - 100	<b>5</b> €
Nitrobenzene-d5	250	UG/L	35 ~ 114	91
Phenol-d5	375	T/DU	10 - 94	148
Terphenyl-d14	250	UG/L	33 ~ 141	54



1544 Sawdust Road, Suite 505 The Woodlands, TX 77380 Phone: (281) 292-5277 Fax: (281) 292-2481

Dear Mr. Zac,

This document will serve as an official Results report for the TCLP_RCRA_Metals Test on the following two samples.

Lab Sample ID	8181.001	8181.002	ICPBLKE2
Client Sample	Unknown	Oil	ICPBLKE2
ID	}	Cuttings	
ELEMENT		CONC. (mg/L	)
Ag 338.289	ND	ND	ND
AJ 308.215	ND	0.92993	ND
As 188,979	ND	0.024228	ND
Ba 233,527	0.133921	2.1064	ND_
Be 313,107	ND	0.00245	ND
Ca 315.887	18.6049	707.228	ND"
Cd 226.502	ND	0.001441	ND
Co 228.616	ND	0.012047	ND
Cr 267.716	DN	ND	ND
Cu 324.752	0.03502	0.028985	ND
Fe 273.955	0.114234	18.5758	ND
Mg 279.077	1.12547	26.7497	NĐ
Mn 257.610	0.014473	4.03537	D
Na 330.237	2414.67	1982.3	ND
Ni 232.003	0.010242	0.031799	ND
РЬ 220.353	ND	0.067656	ND
Sb 206,836	ND	ND	ND
Se 196.026	0.101838	0.042304	ND
Ti 190.801	0.016749	ND	מא_
V 292.402	ND	0.014022	ND
Zn 206.200	0.162085	0.408872	ND_
K 766.490	8.13775	18.0233	ND
Hg	ND	ND	ND

Please feel free to contact me or Reddy Pakanati if additional information is needed

Yours truly,

Pradeep Divvela

Quality Assurance Manager

A4 Scientific Inc.

Pradeep@a4scientific.com

# QC RESULTS



Page 1 of 1

### LCS/LCSD SUMMARY REPORT

IGNITABILITY DATE RECEIVED CLIENT NAME 106/12/2007 froject name PRINTED ON 10:48 PROJECT NUMBER Sample Matrix : SOLID METHOD REFERENCE : SW846-1010 LAB CONTROL SAMPLE DUPLICATE LAB CONTROL SAMPLE LOSD SAMPLE ID : IGLOSO409D LCS SAMPLE ID : IGTCS0408 CLIENT SAMPLE ID : CLIENT SAMPLE ID : DATE ANALYZED : 04/09/07 DATE ANALYZED :04/09/07 INSTRUMENT FILE ; INSTRUMENT SILE :

	Mr <b>x</b> dg	LOSD :	LCS LCSE FOUND FOUND	ICS LC	D OVERY	PPD	oč lymtys
PARANCTER	THE STERM	Strategic translation keeps and the	VALUE VALUE		(2)	ridit	REC.
Ignicability	degre 82	.0 82.0	81.0 81.0	99	99	0.0 20	98 - 102

^{*} Indicate values outside of OC limits

rød

O out of 1 outside limits

Spike Recovery ;

0 out of 2 outside limits



Page 1 of 1

### LABORATORY REPORT

IGNITABILITY

CLIENT NAME

DUP ID

: CKG SERVICES

PROJECT NAME

: TBC

PROJECT NUMBER

: 0005

PRINTED ON

: 06/12/2007

10:48

CLIENT SAMPLE ID UNKNOWN PREP BLANK SAMPLE ID 6181.001 IGBLK0409 SAMPLE MATRIX BOIL DATE SAMPLED 04/03/2007 DATE RECEIVED 04/05/2007 SW846-1010 METHOD REFERENCE 5W846-1010 QUANTITATION LIMIT 1 1 RESULTS ΝD ND UNITS DEGREES F DEGREES F QUALIFIER ANALYST ВT BT 04/09/07 04/09/07 DATE ANALYZED ROOM TEMP. 72 DEGREES F 72 DEGREES F QC BATCH ID IGBLR0409 IGBLK0409 PRE-PREP BLANK ID PREP BLANK ID IGBEKO409 IGBLK0409 LCS ID IGLCS0409 LCSD ID IGLCS0409D

8181.001DUP1



Page 1 of 1

### LCS/LCSD SUMMARY REPORT

CORROSIVITY PH DATE RECEIVED CLIENT NAME PRINTED ON :06/12/2007 10:4B PROJECT NAME PROJECT NUMBER METHOD REFERENCE : SW846-9045C XISTAM BIGMAR SOLID LAB CONTROL SAMPLE LAB CONTROL SAMPLE DUPLICATE LCSD SAMPLE ID CRLCS229D LCS SAMPLE ID CRICS229 CLIENT SAMPLE ID ; CLIENT SAMPLE ID : DATE ANALYSED : 04/09/07 DATE ANALYZED : 04/09/07 INSTRUMENT FILE : INSTRUMENT FILE : ICSO TRUE POUND RECOVERY RECOVERY 

0 but of 1 outside limits

Spike Recovery :

0 out of 2 outside limits

^{7.03 100} RED PARAMETER VALVE, E VALUE Corrosivity PR

[&]quot; Indicate values outside of QC limits



Page 1 of 1

### LABORATORY REPORT

CORROSIVITY MI

CLIENT NAME

: CKG SERVICES

PROJECT NAME ; TBC PROJECT NUMBER

PRINTED ON

: 0005

: 06/12/2007

20:48

CLIENT SAMPLE ID

SAMPLE ID

SAMPLE WATRIX

DATE SAMPLED DATE RECEIVED UNKNOWN 8101.001

SOIL

04/03/2007

04/05/2007

METHOD REFERENCE

QUANTITATION LIMIT

RESULTS UNITS

QUALIFIER

\$N846~9045C

9.70

UNITS

ANALYST

вт

DATE ANALYZED

04/09/07

CRELKZ29

QC BATCH ID

PRE-PREP BLANK ID

PREP BLANK ID

LCS ID

LCSD ID DUP ID

CRECS229

CRICS229D

8181.0010091



Page 1 of 1

### LCB/LC6D SUMMARY REPORT

REACTIVE CYANIDE (COLOROMETRIC) CLIENT NAME DATE RECEIVED :06/12/2007 PRINTED ON 10:48 PROJECT NAME PROJECT NUMBER METHOD REFERENCE : SW846~SEC.7.3.3 SAMPLE MATRIX · SOLID LAB CONTROL SAMPLE DUPLICATE LAS CONTROL SAMPLE LCSD SAMPLE ID : RCNLCSO412D RCMLC50412 LCS SAMPLE ID CLIENT SAMPLE ID CLIENT SAMPLE ID ; DATE ANALYZED : 04/12/07 DATE ANALYZED : 04/12/07 INSTRUMENT FILE ; THSTAUMENT FILE : RPO QC LIMITS

REPO QC LIMITS

REPO LIMIT REC.

13.3 20 50 - 150 LCS TRUZ ONITS VALUE LCSD STROS. LCSD LCSD LCSD LCSD ARDE FOUND RECOVERY RECOVERY RECOVERY (\$) (\$) PARAMETER

Cyanide, reactive

RPD

O out of 1 outside limits

0.350

0.500

Spike Recovery .

MG/KG

0.500

0 out of 2 outside limits

0.400

Indicate values cotaids of QC limits



Page 1 of 1

### LABORATORY REPORT

### REACTIVE CYANIDE (COLOROMETRIC)

CLIENT NAME

: CKG SERVICES

PROJECT NAME

: TBC

PROJECT NUMBER PRINTED ON

: 0005

: 06/12/2007

10:48

# PARAMETER: Cyanide resctive

CLIENT SAMPLE ID

SAMPLE ID

SAMPLE MATRIX DATE SAMPLED DATE RECEIVED

UNKNOWN 8181,001

SOIL 04/03/2007 04/05/2007 PREP BLANK RCN0412

METHOD REFERENCE

QUANTITATION LIMIT RESULTS

UNITS QUALIFIER SW846-SEC.7.3.3

0.05

ND MG/KG

BT

9W846-SEC.7.3.3

0.05 ND

MG/KG

04/12/07

04/11/07

ET

ANALYST DATE ANALYZED DATE PREPPED DILUTION NaOH VOLUME

SAMPLE WEIGHT

QC BATCH ID PRE-PREP BLANK ID PREP BLANK ID

LC8 ID LCSD ID MS ID

MSD ID DUP ID 04/11/07 1

04/12/07

50 ML 10 G

RCN0412

RCNBLK0412

RCNBLK0412

RCN0412

50 ML

10 ೯

RCNLC50412

RCNLCS0412D

1900100,1818



Page 1 of 1

### LCS/LCSD SUMMARY REPORT

REACTIVE SULFIDE (COLOROMETRIC) CLIENT NAME DATE RECEIVED PROJECT NAME PRINTED ON :06/12/2007 20:49 PROJECT NUMBER Sample Marrix : SOLID METROD REFERENCE - SW846-SEC.7.3.4 LAB CONTROL SAMPLE LAB CONTROL SAMPLE DUPLICATE LOS SAMPLE ID : RELCSO412 LCSD SAMPLE ID RSLCS0412D CLIENT SAMPLE TO : CLIENT SAMPLE ID : DATE ANALYZED :04/12/07 DATE ANALYSED : 04/12/07 INSTRUMENT FILE : INSTRUMENT FILE : LCSD FCS LCSD TO LCSD TO TRUE TOURD SECONDS TABLES TO LCSD TO LCSD TOURD TRUE TOURD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TO LCSD TOURS TO LCSD TOURS TO LCSD TOURS TO LCSD TO LCSD TO LCSD TOURS TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO LCSD TO REP CO LIMIT REP LIMIT SEC TRUE WITS EVALUE

* Indicate values outside of QC limits

Bulfide, reactive

RPD

0 out of 1 outside limits

0 out of 2 outside limits Spike Recovery :

0.500



Page 1 of 1

### LABORATORY REPORT

				WETR	

CLIENT NAME PROJECT NAME

MSD ID DUP ID : CKG SERVICES

: TEC

G SERVICES

8181.001DUP1

PRTN

PROJECT NUMBER : 0005

PRINTED ON : 06/12/2007

10:48

CLIENT SAMPLE ID SAMPLE ID ST81.001 RSB0412  SAMPLE MATRIX SOLL DATE SAMPLED 04/03/2007 DATE RECEIVED 04/05/2007  METHOD REFERENCE SN846-SEC.7.3.4 SW846-SEC.7.3.4 QUANTITATION LIMIT 1 1 1 RESULTS ND ND ND UNITS MG/KG QUALIFIER  ANALYST BT DATE ANALYZED 04/12/07 04/12/07 04/12/07 DATE PREPPED 04/11/07 DILUTION 1 1 NaOH VOLUME 50 MG. SAMPLE WEIGHT 10 G RSB0412 RSB0412 RSB0412 LCS ID RSLCS0412D RSLCS0412D			
SAMPLE MATRIX	. A - AP-1 14 AP-1	UNKNOWN	PREP BLANK
DATE SAMPLED 04/03/2007  DATE RECEIVED 04/05/2007  METHOD REFERENCE SW846-SEC.7.3.4 SW846-SEC.7.3.4  QUANTITATION LIMIT 1 1 1  RESULTS ND ND ND UNITS MG/KG MG/KG  QUALIFIER  ANALYST BT BT BT DATE ANALYZED 04/12/07 04/12/07 04/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11/07 01/11	IAMPLE ID	8181.001	RSB041%
DATE RECEIVED  04/05/2007  METHOD REFERENCE SW846-SEC.7.3.4 SW846-SEC.7.3.4  QUANTITATION LIMIT 1 1  RESULTS ND ND ND  UNITS NG/KG NG/KG  QUALIFIER  ANALYST BT B?  DATE ANALYZED 04/12/07 04/12/07  DATE PREPPED 04/11/07 04/11/07  DILUTION 1 1 1  NaOH VOLUME 50 ML 50 ML  BAMPLE WEIGHT 10 G SB0412  PRE-PREP BLANK ID PREP BLANK ID  PREP BLANK ID RSB0412  RSB0412  RSB0412  RSB0412  RSB0412  RSB0412	AMPLE MATRIX	SOIP	
METHOD REFERENCE	ate sampled	04/03/2007	
QUANTITATION LIMIT  1 1  RESULTS ND ND  UNITS NG/KG NG/KG  QUALIFIER  ANALYST BT BT  DATE ANALYZED 04/12/07 04/12/07  DATE PREPPED 04/11/07 04/11/07  DILLITION 1 1  NAOH VOLUME 50 ML 50 ML  BAMPLE WEIGHT 10 G 10 G  QC BATCH ID RSB0412 RSB0412  LCS ID RSLC90412	NATE RECEIVED	04/05/2007	
ND	METHOD REFERENCE	5W846~5@C.7.3.4	SW846-SEC.7.3.4
UNITS MG/KG MG/KG  QUALIFIER  ANALYST BT B?  DATE ANALYZED 04/12/07 04/12/07  DATE PREPPED 04/11/07 04/11/07  DILUTION 1 1  NaOH VOLUME 50 ML 50 ML  BAMPLE WEIGHT 10 G 10 G  QC BATCH ID RSB0412 RSB0412  PRE-PREP BLANK ID RSB0412  CCS ID RSLC90412	QUANTITATION LIMIT	1	1
QUALIFIER  ANALYST BT BT DATE ANALYZED 04/12/07 04/12/07  DATE PREPPED 04/11/07 04/11/07  DILUTION 1 1  NAOH VOLUME 50 ML 50 ML BAMPLE WEIGHT 10 G 10 G  QC BATCH ID RSB0412 RSB0412  PRE-PREP BLANK ID  PREP BLANK ID RSB0412  LCS ID RSLC90412	ESULTS	ND	ND
ANALYST BT BT  DATE ANALYZED 04/12/07 04/12/07  DATE PREPPED 04/11/07 04/11/07  DILUTION 1 1  NAOH VOLUME 50 ML 50 ML  BAMPLE WEIGHT 10 G 10 G  CC BATCH ID RSB0412 RSB0412  PRE-PREP BLANK ID RSB0412 RSB0412  LCS ID RSLC90412	INITS	MG/KG	MG/KG
DATE ANALYZED 04/12/07 04/12/07  DATE PREPPED 04/11/07 04/11/07  DILUTION 1 1  NAOH VOLUME 50 ML 50 ML  BAMPLE WEIGHT 10 G 10 G  DC BATCH ID RSE0412 RSE0412  PRE-PREP BLANK ID RSE0412 RSE0412  LCS ID RSLC90412	WALIFIER		
DATE PREPPED 04/11/07 04/11/07  DILUTION 1 1 1  NAOH VOLUME 50 ML 50 ML  BAMPLE WEIGHT 10 G 10 G  QC BATCH ID RSB0412 RSB0412  PRE-PREP BLANK ID RSB0412 RSB0412  LCS ID RSLC90412	NALYST	BT	<b>B?</b>
DILUTION 1 1 1  NaOH VOLUME 50 ML 50 ML  BAMPLE WEIGHT 10 G 10 G  QC BATCH ID RSB0412 RSB0412  PRE-PREP BLANK ID RSB0412 RSB0412  LCS ID RSLC90412	ATE ANALYZED	04/12/07	04/12/07
NaOH VOLUME         50 ML         50 ML           BAMPLE WEIGHT         10 G         10 G           DC BATCH ID         RSB0412         RSB0412           PRE-PREP BLANK ID         RSB0412         RSB0412           LCS ID         RSLC90412	ATE PREPPED	04/11/07	04/11/07
### BAMPLE WEIGHT 10 G 10 G  QC BATCH ID RSB0412 RSB0412  PRE-PREP BLANK ID  PREP BLANK ID RSB0412 RSB0412  LCS ID RSLC90412	ILUTION	1	1
QC BATCH ID RSB0412 RSB0412 PRE-PREP BLANK ID PREP BLANK ID RSB0412 RSB0412 LCS ID RSLC90412	IaOH VOLUME	50 ML	50 ML
PRE-PREP BLANK ID PREP BLANK ID R\$B0412 R\$B0412 LCS ID R\$JC\$0412	AMPLE WEIGHT	10 G	10 G
PREP BLANK ID RSB0412 RSB0412 LCS ID RSLC90412	IC BATCH ID	RSB0412	RSB0412
LCS ID R3LC90412	RE-PREP BLANK ID		
	REP BLANK ID	RSB0412	RSB0412
LCSD ID RSLCS0412D	cs io	R3LC90412	
	CSD ID	RSLCS0412D	•



Page 1 of 1

### LABORATORY REPORT

TOTAL PETROLEUM HYDROCARBONS

CLIENT NAME : CLIENT SAMPLE ID : Prep Blank

PROJECT NAME : LAB SAMPLE ID : TPHB569

PROJECT NUMBER : METHOD REFERENCE : TNRCC-1005

CATE SAMPLED : DATE RECEIVED :

SAMPLE MATRIX : SOLID PRINTED ON : 06/12/2007 10:48

& MOISTURE ANALYST DATE ANALYZED : 04/10/07 DATE PREFEED : 04/10/07 DIPALION. : 1 EXTRACT VOLUME : 10 ML INSTRUMENT FILE : B13693 INSTRUMENT ID : B-5890 SAMPLE SIZE : 10 G TIME ANALYZED : 16:01

PARAMETER	MOLTAT LTMAUQ 8	Libit	FEBUI	78	QUALIFIER.
TPN-(>nC12-nC28)	20.0	MG/KG	NO	MG/KG	
TPH-(>nC28-nC35)	20.0	MG/KG	ממ	MG/KG	
TPH-(nC6-nC12)	20.0	MG/KG	ND	MG/KG	

	QUALITY CON	TROLDAT	Α		37.22	
EURROGATE COMPOUND	La venta la su	THE ADDE	D	OC RECOVER	X-TIMI	TS: SRECOVERY
1-Chloroctans		50	MG/KG	70 -	130	122
o-Tarphenyl		50	MG/KG	70 ~	130	94

Page: 00024



Page 1 of 1

### LCS/LCSD SUMMARY REPORT

TOTAL PETROLEUM HYDROCARBONS DATE RECEIVED CLIENT NAME PRINTED ON ;06/12/2007 PROJECT NAME 10:48 PROJECT NUMBER SAMPLE MATRIX METHOD REFERENCE : THRCC-1005 SOLID LAS CONTROL SAMPLE LAB CONTROL SAMPLE DUPLICATE LCSD SAMPLE ID : TPHL5830 LCS SAMPLE ID TPHL593 CLIENT SAMPLE ID : CLIENT SAMPLE ID : DATE ANALYSED :04/10/07 DATE ANALYSED : 04/10/07 INSTRUMENT FILE : 813691 INSTRUMENT FILE : \$13692

PARAMETER		ICS P _{ISI} TRUE — VALUE	eraus.	FOUND	LCSD FOUND II VAINE	CE COVERY	ACSO ACCOVERY	Reo S	eed costimis 1901 as
TPH-(>nC12-nC28)	MG/KG	250	250	263	293	113	117	3.5	30 75 - 125
TPH- (nC6-nC12)	MG/KG	250	250	284	273	114	109	4.5	30 75 - 125

^{*} Indicate values outside of QC limits

RPD : 0 out of 2 outside limits Spike Recovery : 0 out of 4 outside limits



Page 1 of 1

### LABORATORY REPORT

TCUP VOLATILES BY GC/MS CLIENT SAMPLE ID : Prep Blank CLIENT NAME LAB SAMPLE ID : VBLK81 PROJECT NAME METHOD REFERENCE : SW846-8260B PROJECT NUMBER ; DATE RECEIVED DATE SAMPLED : 06/12/2007 10:49 SAMPLE MATRIX : SOLID PRINTED ON

ANALYST : SF DATE ANALYZED : 04/10/2007
DILUTION : INSTRUMENT FILE : C9737.0
INSTRUMENT ID : C-5973 FURGE VOLUME : 20 mL
TIME ANALYZED : 12:38

METATOR THE EAST OF HALLING PARKET FOR THE ASSESSMENT	CUANTITATIC	N TIMIT	ar sakes	ULTS	QUALIFIER
1,1-Dichlorosthene	20	UG/L	ND	UG/L	
1,2-Dichloroethane	20	UG/L	MD	UG/L	
2-Butanone	100	UG/L	ND	UG/L	- No
Benzene	20	UG/L	ND	UG/L	
Carbon tetrachloride	20	UG/L	ND	UG/L	
Chloropenzene	20	UG/L	ND	UG/L	
Chloroform	20	00/L	ND	UG/L	•
Tetrachlorosthen <del>c</del>	20	UG/L	סמ	UG/L	
Trichloroethene	20	UG/L	ND	UG/L	
Vinyl chloride	20	UG/L	NO	UG/L	

TI LAVACE CONTRACTOR OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PR	CONTROL DAT	<b>A</b>	erade (* 1915)	
SURBOGATE COMPOUNDS	COMBRIGATION CO.	<b>D</b> ANGER	OC ANDOVERY DATA	ITS SEECOVERY
Dibromofluoromethane	200	UG/L	75 - 131	91
Toluene-d8	200	UG/L	68 - 125	104
1,2-Dichloroethane-d4	200	UG/L	62 - 139	76
4-Bromofluoropensene	200	UG/L	75 - 125	89



Page 1 of 1

# LCS/LCSD SUMMARY REPORT

TCLP-VOLATILES BY GC/MS

CLIENT NAME : DATE RECEIVED :
PRINTED ON 06/12/2007 10:48

PROJECT NAME : PRINTED ON :06/12/2007
PROJECT NOMBER :

BAMPLE MATRIX ; SOLID. METHOD REFERENCE : SW846-9260B

LAB CONTROL SAMPLE DUFLICATE

LCS SAMPLE ID VLCS81

LCSD SAMPLE ID VLCS81D

CLIENT SAMPLE 1D;

DATE ANALYZED 04/10/2007 . DATE ANALYZED 04/10/2007 INSTRUMENT FILE C9739.D

	stellere existence della	d in Vale balance	CONTRACTOR	entereda. Sa	or or a		orio and const	Taurion 1025	and Original Principles	ere en la companya de la companya de la companya de la companya de la companya de la companya de la companya d
		APPAIR .	THUE	POINO	FOUND	RECOVERY	RECOVERY		RPb	OC LINIT
PARAMSEA COMPANY	Trinu	VALUE ::	WALUE	VALUE	VALUE	(4)		RPD		##C
1,1-Dichlordethane	UG/L	200	200	212	207	106	104	1.9	25	50 - 150
1,2-Dichloroethana	UG/L	200	200	194	165	37	93	4.2	25	50 ~ 150
2-Butanone	. UG/L	1000	1000	1180	1220	776	122	3.3	25	50 - 150
Benzene	0G/1.	200	200 .	231	223	116	113	3.5	25	76 - 127
Carbon tetrachloride	ACLT.	200	200	209	206	105	103	1.9	25	50 - 150
Chlorobenzene .	UG/L	200	200	. 220	213 .	110	107	2.8	25	75 - 130
Chloroform	VG/L	200	200	204	199	102	100	2.0	25	50 - 190
Tetrachloroethene	0G/L	200	200	224	226	112	113	0.9	25	50 - 150
Trichloroethene	UG/L	200	200	221	218	111	109	1.8	25	71 - 120
Vinyl chioride	UG/L	200	200	121	120	61	60	1.7	25	50 - 150

^{*} Indicate values outside of QC limits

RPD : 0 out of 10 outside limits Spike Recovery : 0 out of 20 outside limits



CLIENT NAME

# 1544 Sawdust Road, Suite 505 The Woodlands, TX 77380

Page 1 of 1

### LABORATORY REPORT

AME : CLIENT SAMPLE ID : Prep Slank

PROJECT NAME : LAB SAMPLE ID : SELK4U
PROJECT NUMBER : METHOD REFERENCE : SW846-8270C

DATE SAMPLED : DATE RECEIVED :

SAMPLE MATRIX : SOLID PRINTED ON : 05/12/2007 10:48

ANALYST : JL DATE ANALYZED : 04/10/2007

DATE EXTRACTED : 04/10/07 DILUTION : 1

EXTRACT VOLUME : 1, ml imperiment file : 06365.D INSTRUMENT ID : SAMPLE VOLUME : 200 ml

TIME ANALYZED : 12:30

RAMA PROPERTY OF THE PARAMETER STORY	QUANTITATIO	N LIMIT	RES	ULTS NOT	QUALIFIER
1,4-Dichlorobenzene	50	0G/F	ND	UG/L	
2,4,5-Trichlorophenol	120	OG/L	ND	UG/L	<u> </u>
2,4,6-Trichlorophenol	50	ÜG/L	ND	UG/L	
2,4-Dinitrotoluene	50	UG/L	ND	UG/L	
2-Methylphenol	50	UG/L	ND	UG/L	
3+4-Methylphenol	50	UG/L	NO	UG/L	
Hexachlorobenzene	50	UG/L	MD	ne/p	
Hexachlorobutadiene	50	UG/L	ND	UG/L	
Hexachloroethane	50	UG/L	ND	UG/L	
Nitrobenzene	50	UG/L	MD	UG/L	
Pentachlorophenol	120	UG/L	DU	ŬG/L	
Pyridine	50	UG/L	ND	UG/L	j

QUAL	ITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE ADDED	OC RECOVERY LIMITS	RECOVERY
2, 4, 6-Tribromophenol	375 UG/L	10 - 123	62
2-Fluorobiphenyl	250 DG/L	43 - 116	30
2-Fluorophenol	375 UG/L	21 - 100	45
Mitrobenzene-d5	250 0G/L	35 - 114	64
Phenol-d5	375 UG/L	10 - 94	37
Terphenyl-dle	250 06/L	33 - 141	49



Page 1 of 1

### LABORATORY REPORT

TCLP VOLATILES BY GC/MS

CLIENT NAME : CLIENT SAMPLE ID : Prep Blank

PROJECT NAME : LAB SAMPLE ID : ZHEBLEDL

PROJECT NUMBER : METHOD REFERENCE : SW646-6260B

DATE SAMPLED : DATE RECEIVED :
SAMPLE MATRIX : SCLID PRINTED ON : 06/12/2007 10:49

ANALYST : 5P DATE ANALYZED : 04/10/2007
DILUTION : 5 INSTRUMENT FILE : C9746.D
INSTRUMENT ID : C-3973 PRE-PREP ANALYST : 3P
FORGE VOLUME : 20 mL TCLP PREP. DATE : 04/10/07
TIME ANALYZED : 18:0)

1,1-Dichloroethene	5.0	OG/T	REAN DM	UG/L	
l,2-Dichloroethane	5.0	UG/L	ND	OG/L	·
2-Butanone	25	UG/L	ND	UG/L	
Banzene	5.0	UG/L	ND	UG/L	
Carbon tetrachloride	5.0	UG/L	ND	UG/L	
thloropenzene	5.0	UG/L	ND	UG/L	
hloroform	5.0	UG/L	ND	06/T	
retrachloroethene	5.0	UG/L	ND	UG/L	
richloroethene	. 5.0	VG/L	MD	UG/L	
Vinyl chloride	5.0	UG/L	ND	UG/L	

SURROCATES COMPOUNDED TO THE PROPERTY LESS OF THE ADDED TO THE PROPERTY LESS OF THE PROPERTY AND THE PROPERTY LESS OF THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PRO	IMI'TS SPECOVERY
Dibromofluoromethane 50 UG/L 75 - 131	94
Toluene-d8 50 DG/L 68 - 125	102
1,2~Dichloroethane-de 50 0G/L 62 - 139	93
4-Bromofluorobenzene 50 UG/L 75 - 125	5 92



CLIENT SAMPLE ID :

# 1544 Sawdust Road, Suite 505 The Woodlands, TX 77380

Page 1 of 1

### LCS/LCSD SUMMARY REPORT

TCLP-SEMIVOLATILE ORGANICS BY GC/MS DATE RECEIVED CLIENT NAME PRINTED ON :06/12/2007 10:48 PROJECT NAME PROJECT NUMBER

METHOD REFERENCE - SW846-8270C Sample Matrix : Solid

LAB CONTROL SAMPLE DUPLICATE LAB CONTROL SAMPLE

LGSD SAMPLE ID : 9LC84UD · LCS SAMPLE ID SLCS4U CLIENT SAMPLE ID ;

DATE ANALYZED : 04/10/2007 DATE ANALYZED (04/10/2007 INSTRUMENT FILE ; D6366.D INSTRUMENT FILE : D6367.D

· · · · · · · · · · · · · · · · · · ·										
		LCS	(CED	(Ce	LCSD::::	CS 21	LCSD	isto initalis	irizan.	
		TRUE	TRUE	TOUND.	FOUND WA	ECOVERY	RECOVERY		RPD	oc rom
PARAMETER	UNITS	VALUE	VALUE	VALUE	VALUE:	\$ [4X]: F	www.mc@dessa	. RPD	LIMIT	ALC:
1,4-Dichlorobenzene	ue/L	250	250	146	147	59	59	1.7	28	36 - 97
2.4,5-Trichlorophenol	UG/1	250	250	168	154	67	62	7.8	50	9 10
2,4,5-Trichlorophenol	UG/L	250	250	150	153	63	61	3.2	50	9 - 10
2,4-Dinitrotoluens	VG/L	250	250	244	337	5.0	55	5.3	39	24 ~ 9€
2-Mathylphenol	UG/L	250	250	170	373	68	69	1.5	50	23 ~ 97
3+4-Methylphenol	UG/L	500	500	176	177	35	35	0.0	50	10 - 12
Hexachlorobenzene	UG/L	250	250	143	141	57	58	1.8	50	36 - 57
Hexachlorobutadiene	UG/L	250	250	174	166	70	66	5.9	50	30 - 14
Hexachloroethane	UG/L	250	250	153	154	61	62	1.6	50	30 - 14
Witrobenzene	UG/L	250	250	165	163	66	65	1.5	50	35 - 12
Pentachlorophenol	UG/L	250	250	3.82	182	73	73	0.0	50	9 - 10
Pyridine	ሀሬ/ኒ	250	250	129	134	52	54	3.8	50	9 - 10

^{*} Indicate values outside of QC limits

; 0 out of 12 outside limits Spike Recovery : D out of 24 outside limits



Page 1 of 1

### LABORATORY REPORT

TCLP SEMIVOLATILE ORGANICS BY GC/MS

CLIENT NAME : CLIENT SAMPLE ID : Prep Blank
PROJECT NAME : LAB SAMPLE ID : TCLPBLK0409
PROJECT NUMBER : METHOD REFERENCE : SW845-8270C
DATE SAMPLED : DATE RECEIVED :
SAMPLE MATRIX : SOLID PRINTED ON : D6/12/2007 10:48

ANALYST : BT DATE ANALYZED : 04/20/07
DATE EXTRACTED : 04/10/07 DILUTION : 1

EXTRACT VOLUME : 1 mL INSTRUMENT FILE : INSTRUMENT ID : D-5973 PRE-PREP ANALYST : CL

SAMPLE VOLUME : 200 mL TCLF PREP. DATE : 04/09/07

TIME ANALYZED

PARAMETER	NOUNTITATIO	M TIME.	RES	urs :	DUNTILIER
l,4-Dichlorobenzene	50	DG/T	ИD	UG/L	
2,4,5-Trichlorophenol	120	UG/L	ND	UG/L	
2,4,6-Trichlorophanol	50	ng/r	ND	UG/L	
2,4-Dinitrotoluene	50	ne\T	Ир	06/L	
2-Methylphenol	50	UG/L	ND	OG/X	
3+4-Methylphenol	50	UG/L	ND	ng\r	
Hexachlorobenzene	50	UG/L	ND	DG/T	
Hexachlorobutadiene	50	UG/L	ND	UG/L	
Hexachloroethane	50	UG/L	ДИ	UG/L	
Nitrobenzene	50	UG/L	ND	UG/L	
Pentachlorophenol	120	DG/L	ďЙ	UG/L	
Pyridine	50	UG/L	ND	UG/L	······································

QUAUTY C	ONTROL DĂTA		
SURROGATE COMPOUND	SPIKE ADDED	C RECOVERY TIMITS: FRECOVE	RX:
2, 4, 6-Tribromophenol	375 UG/L	10 - 123	
2-Fluorobiphenyl	250 UG/L	43 - 116	
2-Fluorophenol	375 UG/L	<b>51</b> - 700	
Mitrobensene-d5	250 VG/L	35 ~ 114	
Phenol-d5	375 UG/L	10 - 94	
Temphenyl-d14	250 UG/L	<b>93 - 141</b>	

# END OF REPORT

US Ecology Texas, Inc. P.O. Box 307 3277 County Road 69 Robstown, TX 78380

(800) 242 3209

(361) 387-3518 Fax: (361) 387 0794 (361) 387-0577

# US Ecology Texas, Inc.

an American Ecology company

31, 2009

NIFER EVANS

FENVIRONMENTAL SERVICES INC

1 GRIGGS RD.

**JSTON, TX 77021** 

Generator

: DELTA CHEMICAL SERVICES

Mailing Address

334 TIDAL ROAD, DEER PARK, TX 77536

US Ecology WS# : 090060742-0

Waste Stream Name: HAZARDOUS RAGS & DEBRIS

**Expiration Date** 

: 07/31/2010

**Process** 

: Encapsulation

r Jennifer Evans.

Your Waste Stream Disposal Information form for the above waste stream has been approved.

ter conditions of our operating permit, US Ecology Texas, Inc. is required to inform you that we have all the appropriate permits in order nanage your waste stream. We have received the requisite permits to operate a TSD facility. Our TCEQ permit was renewed on ember 2, 1999 and our permit number is HW-50052.

EPA Uniform Hazardous Waste Manifest (EPA Form 8700-22), appropriate LDR form/certification and Truck Inventory Sheet (if ping in drums) must accompany each shipment. To obtain manifest, Please visit the EPA website for an approved vendor list

ise notify the Texas facility at (800)242-3209 at least 48 hours prior to shipment and provide the facility with the following information:

- Date of Shipment
- Date of Delivery
- U.S. EPA Generator ID Number
- Waste Stream Number(s)
- Total quantity of each waste stream number being shipped

shipment arriving at the facility without prior scheduling and/or all the appropriate paperwork will be subject to rejection.

uld you have any questions, please contact your US Ecology Texas, Inc. Technical Sales Representative at (800) 242-3209. Please refer ie US Ecology Texas, Inc. waste stream number above when making inquiries.

"in wate Schmalsing

OLE SCHMALSTIEG

TOMER SERVICE ASSISTANT

P.O. Box 578

Beatty, NV 89003

Fax (775) 553 -2125

EPA ID #: NVT330010000

# PRICING ADDENDUM TO WASTE TRANSPORTATION, DISPOSAL AND RECYCLING AGREEMENT

US Ecology Idaho, Inc.

P.O. Box 400 20400 Lemley Road Grand View, ID 83624 (800) 274-1516. (208) 834-2275 Fax (208) 834-2919

EPA ID #: IDD073114654

US Ecology Nevada, Inc.

(800) 239-3943, (775) 553-2203

Highway 95, 11 miles South of Beatty

✓ US Ecology Texas, Inc.

P.O. Box 307

3.5 Miles on Petronila Road

Robstown, TX 78380

(800) 242-3209, (361) 387-3518

Fax (361) 387-0794 EPA ID #: TXD069452340

Date: 07/30/2009

Addendum #: 132

Contract #: T03053 Contract Date: 11/20/2002

Ω

WPQ REFERENCE: 090066002

Waste Description: HEXAMETHYLENEDIAMINE

**EPA Waste Codes** 

0002

Generator GATX(HEARNE)

1401 W. BROWN ST.

HEARNE

TX 77589

EPA# TXD000835207 Customer: CES ENVIRONMENTAL SERVICES INC

25971

Address: 4904 GRIGGS RD.

HOUSTON

TX 77021

Contact: JENNIFER EVANS

Phone: (713) 800 7907 Fax: ( )

Invoice Address

4904 GRIGGS RD

HOUSTON

TX

77021

Contact: JUANITA THOMAS

Phone: (713) 676 1460

Fax: (713) 676 1676

Minimum Charge

Group # Pricing

**NEUTRALIZATION** 

FEE

<u>Unit Price Units</u>

\$125.00 55 GALLON DRUM

\$8.00 TONS(2000 LBS)

### TERMS OF AGREEMENT (IF ANY):

PRICING ABOVE INCLUDES DISPOSAL AT US ECOLOGY TEXAS, INC. AND APPLICABLE STATE OF TEXAS DISPOSAL FEES/TAXES. PAYMENT SHALL BE MADE IN CASH AT THE TIME WASTE IS ACCEPTED FOR DISPOSAL UNLESS CREDIT HAS BEEN APPROVED.

- Bulk waste will be billed by tons or cubic yards (i.e. material weighing less than 2,000 lbs. per cubic yard), whichever is greater, as determined by Company.
- Prices set forth in this Addendum will increase 2.0% annually on each anniversary date, except taxes if billed as a 2 separate line item.
- Customer acknowledges that Company may, at its sole discretion, ship Waste to an affiliated US Ecology entity for treatment, disposal and/or recycling.
- PRICING DOES NOT INCLUDE TRANSPORTATION AND ASSUMES COMPLETION OF REQUIRED PROFILES AND PRICING TERMS, AND SHIPMENT TO USET WITHIN 90 DAYS.
- 10% Energy, Insurance and Recovery fee.

THIS ADDENDUM AND THE ATTACHED TECHNICAL AND TRANSPORTATION REQUIREMENTS ADDENDUM ARE INCORPORATED INTO AND ARE A PART OF THE WASTE TRANSPORTATION, DISPOSAL AND RECYCLING AGREEMENT BETWEEN CUSTOMER AND COMPANY AND ARE NOT BINDING UNLESS AND UNTIL SIGNED BELOW BY AN AUTHORIZED REPRESENTATIVE OF COMPANY. PRICES IN THIS ADDENDUM ARE SUBJECT TO ARTICLE XVIII OF THE AGREEMENT AND ARE VALID ONLY AT FACILITY INDICATED BELOW.

CUSTOMER:

Signature

Date: 30:000

FACILITY:

Signature:

Printed Name and Title: Catherine A Skurow General Manager

Date: 07/30/2009

### Exhibit A

to

# PRICING ADDENDUM TO WASTE TRANSPORTATION AND DISPOSAL AGREEMENT

Customer: CES ENVIRONMENTAL SERVICES INC

Contract #: T03053 Contract Date: 11/20/2002 Addendum #: 132

Addendum Date: 07/30/2009

STANDARD PRICING FOR: Group # Waste Stream(s)

**Generator Name** 

State Waste Code(s)

**HEXAMETHYLENEDIAMINE** 

090066002-0 **GATX( HEARNE)**  9911110H

If you have any questions regarding this material please call KEVIN WITTMER

(502) 425 1801

Jill Albert

in Customer Service Department at (800) 242 3209 ext. 255

Page 1 of 1

Addendum #: 132 Contract #: T03053

### **TECHNICAL REQUIREMENTS**

- Customer must have a confirmed scheduled delivery date and time three days prior to ship date. Please contact Company Customer Service
  Department during regular operaating hours Monday Friday for an appointment time.
- 2. The Waste Stream Identification Number (WSID) must appear on each manifest paper required by EPA or DOT. Waste shipped in drums, bags, or boxes must have the WSID clearly marked on the lop and one side of each container.
- 3. Bulk trucks, intermodal boxes and roll-off boxes must be lined and self-unloading by their own equipment. If the waste does not self-unload, the container will be unloaded utilizing excavators or other appropriate equipment at an additional charge and Company assumes no liability for damage to tractor, truck beds, intermodal boxes, roll-off boxes or associated equipment.
- 4. Company does not provide decontamination of trucks or other containers and will not provide certification for decontamination unless requested (additional charges will apply). With prior approval and at additional Customer cost, tanker trucks can be rinsed out with water if the material can be easily removed.
- 5. Drivers delivering material to Company must be clean shaven and have all required PPE (appropriate respirators and cartridges, eye protection, foot protection and disposable protective outer garments) and abide by all DOT, OSHA and Company safety policies. Please contact your Customer Service Representative if you need assistance with appropriate PPE.
- 6. Waste identified as having non-regulated light ballasts and capacitors are subject to the following: Company must give prior approval and each individual item must have manufacturer markings identifying the item as being non-PCB. Otherwise, Company may consider all PCB light ballasts and small capacitors to be TSCA regulated.
- Containerized waste must be shipped in DOT approved containers and is subject to the following requirements: Drums must weigh less than 800 lbs.; Bags must be load rated, double stitched, equipped with integral lift straps and weigh less than 5,600 lbs.; Palletized Boxes exceeding thirty-six(36) inches in any dimension will be subject to surcharge and must weigh less than 2,800 lbs. Non-metal drums may require additional charges. Friable Asbestos must be double bagged, wetted and labeled per the requirements of 40 CFR Part 61, Subpart M. All NESHAPS information must be recorded on the manifest. Floor dry may be added to avoid the formation of free liquids. Debris requiring treatment must meet the definition in 40 CFR §268.2, must not be individually packaged and must be self-unloading if bulk shipped.

### TRANSPORTATION TERMS & CONDITIONS

- 1. All transportation taxes and fees are the responsibility of the Customer and will be billed as a separate item, if not already included in the quoted rate.
- 2. Any fuel surcharges added by transporter(s) are the responsibility of the Customer and will be included on Company invoices.
- 3 Customer is responsible for proper loading, fining, tarping and weighing of vehicles or rail cars. Any overloads or subsequent costs from overloads are the responsibility of the Customer.
- 4. Customer is responsible for proper manifesting, marking, labeling, and placarding as required by law.
- 5. Customer is responsible for payment of demurrage and transportation delay costs other than those caused by the transporter or Company, its agents, servants, or employees.
- 6. Customer is responsible for proper and safe handling of all rail containers, gondolas or other transportation equipment while on the Customer's site.
- 7. Customer is responsible for payments of costs for damage to equipment caused by Customer and/or its contractors, agents or employees. Customer must notify Company of any damage to equipment caused by Company prior to leaving Company's facilities. Claims made after departure cannot be verified or paid.
- 8. Unless otherwise specified, truck shipments will be subject to one hour loading and one hour unloading free time; Customer will be charged per hour for celays beyond the allowed free time.
- 9. All costs incurred by Company as a result of the failure of Customer to perform or adhere to the foregoing responsibilities and requirements will be due and payable by Customer to Company.
- 10. Customer is responsible for payment at the rates specified herein for any equipment provided by Company pursuant to this Addendum, but not used. Intermodal and roll-off containers will be charged at the same rate as if the container was fully loaded with a minimum of twenty (20) tons, or the rated container capacity, whichever is more. Standard end-dump trucks will be charged as if fully loaded with twenty-two (22) tons. Truck and pup units will be charged as if loaded with thirty (30) tons.

## **ADDITIONAL RAIL TERMS & CONDITIONS**

- 1. Gondolas with a legal gross capacity of 286,000 lbs will be subject to a minimum payload of 106 tons. Gondolas with a legal gross capacity of 263,000 lbs will be subject to a minimum payload of ninety-six (96) tons.
- 2. If gondola cars are ordered and not used, they may be billed as if they were full with 106 tons each. If gondola cars are ordered and not shipped within thirty (30) days, the gondola cars will need to be released and reordered if needed for other projects.
- 3 Waste shipped in boxcars or trailers must be packaged in drums, boxes or other suitable containment and be properly blocked and braced for shipment.
- 4. Five free days will be allowed for gondolas once the equipment is spotted at the project site or Customer has been notified that empty equipment can be delivered to the project site. Demurrage is \$60 per day per railcar and will be assessed in the event gondola loading has not started within five days of the date for which cars were ordered and placed. This fee will continue on a daily basis until gondolas are loaded and released for shipment.
- 5. Fuel adjustment surcharges will be billed based on the servicing railroad's index (i.e. per gallon of diesel fuel or per barrel of West Texas Intermediate Crude Oil) and charged directly to Customer.
- 6. Request for rail equipment must be made in writing by Customer prior to the shipment for placement of empty gondolas forty-five (45) days in advance.